



International Conference on Experimental Solid Mechanics (XMECH-2016)
February 16-17, 2016, Iran University of Science and Technology, Tehran, Iran

Final Program

February 16, 2016

8:00-8:30	On-site Registration			
8:30-9:00	Open Ceremony / Welcoming by Conference Chair: M. M. Shokrieh & Chair of Center of Excellence in Experimental Solid Mechanics and Dynamics: H. Ahmadian			
9:00-9:30	Keynote Speaker: Ch. Sommitsch , <i>Institute of Materials Science and Welding, Graz University of Technology, Austria</i> Thermo-mechanical testing of advanced alloys with the Gleeble system			
9:30-10:00	Keynote Speaker: M. Guagliano , <i>Dipartimento di Meccanica Politecnico di Milano, Italy</i> Recent Advancements in Severe Shot Peening			
10:00-10:30	Coffee/Tea Break			
Poster Presentations (10:30-12:00)				
12:00-13:30	Pray & Lunch			
Oral Presentations				
Sessions	Room 1	Room 2	Room 3	Room 4
13:30-14:50	Residual Stress	Fatigue	Characterization	Control & Vibration
14:50-15:30	Coffee/Tea Break			
15:30-16:50	Manufacturing process	Fracture	Characterization	Buckling
Conference sessions adjourn for the day				

February 17, 2016				
8:30-9:15	On-site Registration			
9:15-9:45	Keynote Speaker: L. Vergani , <i>Dipartimento di Meccanica Politecnico di Milano</i> , Italy Understanding the structure–property relationship in cortical bone to design a biomimetic tough composite			
9:45-10:30	Coffee/Tea Break			
Poster Presentations (10:30-12:00)				
12:00-13:30	Pray & Lunch			
Oral Presentations				
Sessions	Room 1	Room 2	Room 3	Room 4
13:30-14:50	Damage & Failure	Characterization	Characterization	Control & Vibration
14:50-15:30	Coffee/Tea Break			
15:30-16:50	Fracture	Characterization	High strain rate	Characterization
Conference closing session				

Main Hall	
February 16, 2016	
08:30-09:00	Open Ceremony / Welcoming by Conference Chair: M. M. Shokrieh & Chair of Center of Excellence in Experimental Solid Mechanics and Dynamics: H. Ahmadian
09:00-09:30	Keynote Speaker: Ch. Sommitsch , <i>Institute of Materials Science and Welding, Graz University of Technology, Austria</i> Thermo-mechanical testing of advanced alloys with the Gleeble system
09:30-10:00	Keynote Speaker: M. Guagliano , <i>Dipartimento di Meccanica Politecnico di Milano</i> , Italy Recent Advancements in Severe Shot Peening
Coffee/Tea Break	
February 17, 2016	
09:15-09:45	Keynote Speaker: L. Vergani , <i>Dipartimento di Meccanica Politecnico di Milano</i> , Italy Understanding the structure–property relationship in cortical bone to design a biomimetic tough composite
Coffee/Tea Break	

Room 1 (February 16, 2016)

Session Chairs: Guagliano, M., Sedighi, M.

Subject: Residual Stress

13:30-13:50	A-10-341-11	Developing of a New Eigen-strain Based Method for Estimation of Macro Residual Stresses of Laminated Polymeric Composites under Curing Cycles Shokrieh, M.M., Jalili, S.M., Kamangar, M. <i>Iran University of Science and Technology</i>
13:50:14:10	A-10-424-3	A Study on Residual Stresses Induced by Waterjet Peening Mahmoudi, A.H., Salahi, F., Maleki, B. <i>University of Bu-Ali Sina</i>
14:10-14:30	A-10-894-1	Residual Stresses in Bending of Bi-layer Al-Cu sheets Kheder, H., Sedighi, M., Joudaki, J. <i>Iran University of Science and Technology</i>
14:30-14:50	A-10-857-1	Residual Stresses Measurement of Shot Peened Rolled Sheets of AZ31 Using Two-dimensional X-ray Diffraction Yazdanmehr, A., Jahed, H. <i>Waterloo University</i>

Room 2 (February 16, 2016)

Session Chairs: Varvani-Farahani, A., Taheri B., F.

Subject: Fatigue

13:30-13:50	A-10-354-2	Fatigue Life Assessment of Steel Samples undergoing various Irregular Multiaxial Loading Spectra through Energy-based Damage Models Ahmadzadeh, G.R., Varvani-Farahani, A. <i>Ryerson University</i>
13:50:14:10	A-10-575-3	Numerical Fatigue Life Simulation of Cross-ply Laminates Taheri-Behrooz, F., Samareh-Mousavi, S. <i>Iran University of Technology</i>
14:10-14:30	A-10-802-1	Fatigue Crack Growth Assessment of Skin-Stringer Panels having Different Crack Scenarios Sadeghi, Gh., Maktoobian, M.R., Fakoor, M., Alem, B. <i>Iran A/C Manufacturing Ind. HESA Co.</i>
14:30-14:50	A-10-930-1	Microstructural Failure Mechanism of Dual Phase Steel in High Cycle Fatigue and Uniaxial Tensile Tests Hosseini Toudeshky, H., Anbarlooie, B., Kadkhodapour, J. <i>Amirkabir University of Technology</i>

Room 3 (February 16, 2016)

Session Chairs: Eslami-Farsani, R., Ayatollahi, M.R.

Subject: Characterization

13:30-13:50	A-10-525-5	Mechanical Characterization of a Hyperelastic Biopolymer Using Nano-Indentation Experiment and Finite Element Method Karimzadeh, A., Ayatollahi, M.R., Bushroa A.R. <i>Iran University of Science and Technology</i>
13:50:14:10	A-10-762-1	Using Basalt Fibers in Fabricating Thin Isogrid-Stiffened Composite Structures and Determining Their Flexural Response Khosravi, H., Eslami-Farsani, R. <i>K. N. Toosi University of Technology</i>
14:10-14:30	A-10-767-1	A Modified Hardening Rule in Ratcheting Evaluation of Steel Alloys subjected to Non-Proportional Asymmetric Stress Cycles Hamidinejad, S.M., Varvani-Farahani, A. <i>Ryerson University</i>
14:30-14:50	A-10-845-1	Mechanical Property Determination of Multi-Walled Carbon Nanotube Reinforced Polymer: Experimental and Numerical Alasvand, K., Golestanian, H. <i>Shahrekord University</i>

Room 4 (February 16, 2016)

Session Chairs: Rahimi, G.H., Rajabi, M.

Subject: Control & Vibration

13:30-13:50	A-10-771-1	Implementing a Low-Cost Vision-Based 3d Position-Controller on a Quad-Rotor Sajedi, M., Markazi, A.H.D., Shirdareh, I. <i>Iran University of Science & Technology</i>
13:50:14:10	A-10-781-1	The Application of Concurrent Engineering in IDAS Cansat Design and Fabrication Khanmirza, E., Maghsoudi, A., M., Nejati, M.S. <i>Iran University of Science and Technology</i>
14:10-14:30	A-10-839-2	Static Analysis of Grid Stiffened Composite Plate by Piezoelectric Actuators Paknejad, A., Rahimi, G.H., Malekinejad, H. <i>Tarbiat Modares University</i>
14:30-14:50	A-10-790-1	Free Vibrations of a Micro/Nano Spherical Shell Based on Modified Couple Stress Theory Hosseini-Hashemi, Sh., Sharifpour, F., Ilkhani, M.R. <i>Iran University of Science and Technology</i>

Coffee/Tea Break

Room 1 (February 16, 2016)

Session Chairs: Safarabadi, M., Hashemi, R.

Subject: Manufacturing process

15:30-15:50	A-10-422-2	Effect of Deep Rolling Process on Surface Hardness of Al 7075-T6 Zare-Jouneghani, F., Majzooobi, Gh.H., Khademi, E. <i>Hamedan University of Technology</i>
15:50:16:10	A-10-741-3	Experimental Determination of Forming Limit Diagram of 5083 Aluminum Alloy Sheet Produced by Equal Channel Angular Rolling Process Rahimi, H.R., Sedighi, M., Hashemi, R. <i>Iran University of Science and Technology</i>
16:10-16:30	A-10-796-1	A New Laboratory Model to Determine the Grindability SAG Mill Feed of Sarcheshmeh Copper Complex Razani, M., Maesomi, A., Rezaeizadeh, M. <i>University of Tehran</i>
16:30-16:50	A-10-828-1	Investigate of Flux Cored Arc Welding On Steel St-52 Using Experimental Method Araee, A., Fathi, A., Farrokhi, A.R. <i>University of Tehran</i>

Room 2 (February 16, 2016)

Session Chairs: Choupani, N., Khoramishad, H.

Subject: Fracture

15:30-15:50	A-10-341-15	The Role of Interface Fiber Angle on the Delamination Growth of DCB Specimen Made of E-Glass/Epoxy Laminated Composites Shokrieh, M.M., Salamat-talab, M., Heidari-Rarani, M. <i>Iran University of Science and Technology</i>
15:50:16:10	A-10-572-5	Methods of Pre-Cracking and Investigation of Effects on Fracture Toughness of poly(methyl methacrylate) Haddadi, E., Choupani, N., Abbasi, F. <i>Sahand University of Technology</i>
16:10-16:30	A-10-803-1	Experimental and Numerical Damage Tolerance Analysis of Cracked Stiffened Aluminum Plates Repaired by Composite Patches Sadeghi, G., Kazemi, S.R. <i>Amirkabir University of Technology</i>

16:30-16:50	A-10-848-1	Analysis of crack propagation in mode-II in adhesive composite material/aluminum joints and extension of the experiments to effects of nanosilica on fracture toughness of adhesive Khoshnavan, M.R., Haghighat, R., Moslemi, M. <i>University of Tabriz</i>
-------------	------------	---

Room 3 (February 16, 2016)

Session Chairs: Mosalmani, R., Esmkhani, M.

Subject: Characterization

15:30-15:50	A-10-817-2	Design, Modeling and Providing an advanced characterization techniques to increase the strength of adhesive joints Ehsani, A., Rajabpour, M., Lashgaroo, M. <i>Semnan Branch, Islamic Azad University</i>
15:50:16:10	A-10-678-11	Experimental Investigation on Flexural Properties of Self-Healing Composites Fabricated by Short Hollow Fibers Ghanbari, H., Aghamirzadeh, G.R., Khalili, S.M.R., Eslami Farsani, R. <i>K.N. Toosi University of Technology</i>
16:10-16:30	A-10-762-4	Self-Healing Capability in Foam Based Sandwich Panels using Hollow Glass Fibers Feli, M., Eslami-Farsani, R., Khosravi, H. <i>K.N. Toosi University of Technology</i>
16:30-16:50	A-10-784-2	Experimental Modeling of Friction Coefficient Values at Different Contact Pressures Eskandarzade, M., Masoumi, A., Faraji, G. <i>University of Tehran</i>

Room 4 (February 16, 2016)

Session Chairs: Haghighi-yazdi, M., Mohammadi, B.

Subject: Buckling

15:30-15:50	A-10-375-10	Copper Energy Absorber with Elliptical Cross-Section under the Lateral Compression Tests Shamiri, A., Esfandiari, M., Niknejad, A. <i>Yasouj University</i>
15:50:16:10	A-10-678-7	Experimental Buckling Analysis of Laminated Composite Cylindrical Shells with Embedded Shape Memory Alloy wires Khalili, S.M.R., Akbari, T. <i>K.N. Toosi University of Technology</i>
16:10-16:30	A-10-723-3	Buckling and Mass Optimization of Grid Stiffened Composite Shell under External Hydrostatic Pressure Ghasemi, A.R., Hajmohammad, M.H., Ghaffari, E. <i>University of Kashan</i>

16:30-16:50	A-10-789-1	An Experimental Study on the Effect of Buckling Initiators on Energy Absorption Behavior of Thin-Walled Steel Cones Shariati, M., Sanati, E., Nazarian, S., Shariati, A.R. <i>Ferdowsi University of Mashhad</i>
-------------	------------	---

Conference sessions adjourn for the day

Room 1 (February 17, 2016)

Session Chairs: Heidari-Rarani, M., Taheri B., F.

Subject: Damage & Failure

13:30-13:50	A-10-526-2	Analytical and Numerical Investigation of Progressive Damage in a Composite Layup Jahani, M., Beheshti, H., Heidari-Rarani, M. <i>University of Isfahan</i>
13:50:14:10	A-10-935-1	Assessment of Multiple Failures in CFRP Composite Laminates using Damage-based Models Kolor, S.S.R., Ayatollahi, M.R., Tamin, M.N. <i>Universiti Teknologi Malaysia</i>
14:10-14:30	A-10-824-5	Investigation of the separation between skin core of sandwich composite plates under bending loading Malekinejad, H., Rahimi, G.H., Farrokhabadi, A., Kamareh, F. <i>Tarbiat Modares University</i>
14:30-14:50	A-10-791-2	Progressive Failure Analysis of A Filament-Wound Composite Tube with Aluminum Liner Using Dynamic/Explicit Solution Heidari-Rarani, M., Babnadi, R. <i>University of Isfahan</i>

Room 2 (February 17, 2016)

Session Chairs: Tahani, M., Sedighi, M.

Subject: Characterization

13:30-13:50	A-10-678-9	Thermal Cycling and Environmental Effect on Tensile Behavior of Adhesive Single Lap Joints for Fiber Metal Laminate Sharafi, M., Khalili, S.M.R., Mehrsefat, N., Eslami Farsani, R. <i>Islamic Azad University</i>
-------------	------------	---

13:50:14:10	A-10-814-1	Effect of short fibers on specific wear rate and friction coefficient of brake friction materials Nasabi-Shams, A.H., Khazaei, A., Eskandari, A., Hakimian, A., Shojaei, A. <i>Sharif University of Technology</i>
14:10-14:30	A-10-877-1	Effect of Resin Pocket Area on the Mechanical Strength and Crack Propagation of Tapered Sandwich Composites Soleymani, M., Tahani, M. <i>Ferdowsi University of Mashhad</i>
14:30-14:50	A-10-943-1	Experimental Investigation of the Effects of Torsion Pitch in Simultaneous Tension-Torsion Deformation Pourbashiri, M., Sedighi, M., Poletti, C., Sommitsch, C. <i>Iran University of Science and Technology</i>

Room 3 (February 17, 2016)

Session Chairs: Pol, M.H., Raffee, R.

Subject: Characterization

13:30-13:50	A-10-855-1	Experimental Investigation of Contact Pressure Distribution in PEM Fuel Cells Alizadeh, E., Barzegari, M., Momenifar, M., Ghadimi, M., Saadat S.H.M. <i>Malek-Ashtar University of Technology</i>
13:50:14:10	A-10-881-1	The Effect of Aramid Short Fibers and CaCO₃ Nanoparticles on the Tensile and Impact Performances of Polypropylene-Based Composites Faraji Kalajahi, P., Chalabi Tehran, A., Shelesh-Nezhad, K., Arsalani, N. <i>University of Tabriz</i>
14:10-14:30	A-10-904-1	The effect of polyurethane foam-filler on the energy absorption capability in the circular double layered composite tubes Rezaei, M., Liaghat, Gh., Pol, M.H. <i>Tarbiat Modares University</i>
14:30-14:50	A-10-931-1	Identification of Hollow Fiber Membrane Spinneret Using Image Processing and Neural Network Abbasgholipour ghadim, M., Mailah, M., Zaurah, I., Ismail, A.F., Abbasgholipour, M., Rezaei Dashtarzhandi, M. <i>UniversitiTeknologi Malaysia</i>

Room 4 (February 17, 2016)

Session Chairs: Habibnejad, M., Khanmirza, E.

Subject: Control & Vibration

13:30-13:50	A-10-863-1	A New Framework for Design and Fabrication of Intelligent Quadrotor Khanmirza, E., Amini Farshchi, M.M., Maghsoudi, A. <i>Iran University of Science and Technology</i>
-------------	------------	--

13:50:14:10	A-10-882-1	Gait Analysis as a Monitoring Test in Spinal Cord Injury Treatment: A Pilot Study Arshi, A.R., Alavikia, M.S., Eskandari, F. <i>Amirkabir University of Technology</i>
14:10-14:30	A-10-897-1	Roller Chain and Sprocket System Fault Detection and Diagnostics Based on Vibrating Signal Karimi, M., Taheri, A. <i>University of Bu Ali Sina</i>
14:30-14:50	A-10-924-1	Geometric Effects in Tilting-Pad Dynamic Coefficients and Critical Speeds of a Rotor Taherkhani, Z., Ahmadian, H., Pourtaba, H. <i>Iran University of Science and Technology</i>

Coffee/Tea Break

Room 1 (February 17, 2016)

Session Chairs: Mahmoudi, A.H., Aliha, M.

Subject: Fracture

15:30-15:50	A-10-824-4	Analysis Of Debonding in Composite Laminates with Lattice Stiffeners under Bending Loading Using the Cohesive Zone Model and Experiment Kamareh, F., Rahimi, G.H., Farrokhabadi, A, Malekinejad, H. <i>Tarbiat Modares University</i>
15:50:16:10	A-10-865-2	Charpy Impact Response of V-Notched Marble-Experimental Investigation Daghigh, H., Jalalifar, H., Daghigh, V., Nikbin, K. <i>Shahid Bahonar University of Kerman</i>
16:10-16:30	A-10-872-2	Evaluation of Different Types of Crack Stop Drill Hole by Extended Finite Element Method Nasrnia, A., Haji Aboutalebi, F., Poursina, M. <i>University of Isfahan</i>
16:30-16:50	A-10-926-1	Fracture of Stainless Steels with Temperature Dependent Material Properties under Thermal Gradient and Cryogenic Temperature Rajabi, M., Soltani, N. <i>University of Tehran</i>

Room 2 (February 17, 2016)

Session Chairs: Golzar, M., Khoramishad, H.

Subject: Characterization

15:30-15:50	A-10-895-1	Experimental Investigation of Quasi-Static Penetration on Honeycomb Sandwich Panels Filled with Foam Hassanpour R., F., Liaghat, G.H., Sabouri, H. <i>Tarbiat Modares University</i>
-------------	------------	---

15:50:16:10	A-10-900-2	Modification of ZnO Nanoparticles Using Various Coupling Agents Golbang, A., Famili, M.H.N., Taghavimehr, M. <i>Tarbiat Modares University</i>
16:10-16:30	A-10-914-4	Numerical and Experimental Investigation on Weld Strength of Thermoplastic Polymers with Carbon Fiber Abbasi Shirsavar, M., Akbari, D., Golzar, M. <i>Tarbiat Modares University</i>
16:30-16:50	A-10-916-1	The Effect of Isothermal and Hygrothermal Ageing on Mechanical Properties of Glass/Epoxy Composites and Fiber Metal Laminates Najafi, M., Ansari, R., Darvizeh, A. <i>Guilan University</i>

Room 3 (February 17, 2016)

Session Chairs: Jamal Omid, M., Mosalmani, R.

Subject: High strain rate

15:30-15:50	A-10-795-2	Dynamic analysis of satellite sandwich panels: Experimental and Numerical Approach Shahravy, M., Mokhtari, M. <i>University of Malek-e-Ashtar</i>
15:50:16:10	A-10-841-1	Experimental Study of Dynamic Behavior of C10200 by Split Hopkinson Tensile Bar Test Sadeghi Chahardeh, A.R., Naghdabadi, R. <i>Sharif University of Technology</i>
16:10-16:30	A-10-918-1	Impact Behavior of PP/EPDM Nanocomposites Fereidoon, A., Daghigh, V., Nikbin, K. <i>Islamic Azad University</i>
16:30-16:50	A-10-918-3	Thermal Fatigue Effect on Impact Properties of Latania Natural Fiber Reinforced PP/EPDM Biocomposites Daghigh, V., Fereidoon, A., Nikbin, K. <i>Islamic Azad University</i>

Room 4 (February 17, 2016)

Session Chairs: Montazeri, M., Hasehmi, R.

Subject: Characterization

15:30-15:50	A-10-804-1	Thermally Induced Multistable Connected Curved Composite Plates as Adaptive Structures for Morphing Applications Mostafavi, S., Golzar, M., Alibeigloo, A. <i>Tarbiat Modares University</i>
-------------	------------	---

15:50-16:10	A-10-831-1	Car Seat Design to improve Rear Seat Strength during Seat Belt Anchorage test According to ECE R14 Barza, M., Khajehzadeh, M., Beheshti, M. <i>Amirkabir University of Technology</i>
16:10-16:30	A-10-862-1	Experimental Modeling of Left Coronary Artery Hemodynamics Affected by Ventricular wall Motion Ahmadi, A., Fatourae, N. <i>Amirkabir University of Technology</i>
16:30-16:50	A-10-887-1	Investigation of Anisotropy Effect on Springback of Fiber Metal Laminate in Hat-shaped Bending Keipour, S., Gerdooei, M., Mazinianian, H., Saadatfard, A. <i>Shahrood University</i>
Conference sessions adjourn for the day		

Poster Presentations (February 16, 2016, 10:30-12:00)

A-10-341-9	Progressive damage modeling of random short-fiber composites Shokrieh, M.M., Moshrefzadeh-Sani, H. <i>Iran University of Science and Technology</i>
A-10-341-10	Enhancement of Shear Mechanical Properties of Woven E-Glass/Epoxy Composites using Carbon Nanofibers Shokrieh, M.M., Ghasemi, R., Mosalmani, R. <i>Iran University of Science and Technology</i>
A-10-341-12	On the Estimation of Residual Stresses of Isotropic Materials using a New Eigen-strain Based Method Shokrieh, M.M., Jalili, S.M. <i>Iran University of Science and Technology</i>
A-10-341-16	Creep and Recovery Behaviors of Using Graphene/ Epoxy, MWCNT/Epoxy and Graphene/MWCNT/Epoxy Nanocomposites Shokrieh, M.M., Shokrieh, Z., Alaei, M., Zhao, Z. <i>Iran University of Science and Technology</i>
A-10-375-7	Experimental Comparison of the Energy Absorption Behaviors of the Triangular and Circular Tubes during the Flattening Process Amirhosseini, S.Gh., Niknejad, A. <i>Yasouj University</i>

A-10-375-9	Experimental Investigation of Influences of Different Internal Stiffeners on Energy Absorption Behavior of Square Sections during the Flattening Process Niknejad, A., Khanchehzar, P., Amirhosseini, S.Gh. <i>Yasouj University</i>
A-10-375-12	Round Hat Sections during the Lateral Flattening Process through the Experiments Niknejad, A., Shahidi, J. <i>Yasouj University</i>
A-10-424-4	Application of LEFM in slitting method for measuring residual stresses Mahmoudi, A.H., Hasani, A.R. <i>University of Bu-Ali Sina</i>
A-10-450-4	On the Static Behavior of Hybrid (Bolted/Bonded) Joints Hassanifard, S., Feyzi, M. <i>University of Tabriz</i>
A-10-525-8	Experimental analysis of crack using digital image correlation technique Ayatollahi, M.R., Moazzami, M., Chamani, H.R. <i>Iran University of Science and Technology</i>
A-10-575-2	Out of plane shear properties of glass/epoxy composites enhanced with carbon nanofibers Taheri-Behrooz, F., Yaghoobi-Chatroodi, A.R., Esmkhani, M. <i>Iran University of Science & Technology</i>
A-10-678-8	Experimental study on sandwich panels with Edge Insert under Pull out load Khalili, S.M.R., Fatehi, H. <i>K.N. Toosi University of Technology</i>
A-10-678-12	Numerical analysis and manufacture of carbon leg prostheses Khalili, S.M.R., Noruzian, H. <i>K.N. Toosi University of Technology</i>
A-10-753-3	Experimental mixed mode I/III fracture toughness study for a hot mix asphalt mixture Aliha, M.R.M., Bahmani A., Khondi, Sh. <i>Iran University of Science and Technology</i>
A-10-765-1	Performance Improvement of Multi-Span Simply Supported Bridges Using Optimized Compound restrainers Joghataie, A., Pahlavan Yali, A. <i>Sharif University of Technology</i>

A-10-784-1	A novel strategy to speed up FE modeling of Ultrasonic Assisted ECAP Process Eskandarzade, M., Masoumi, A., Faraji, G. <i>University of Tehran</i>
A-10-789-2	Experimental investigation on energy absorption of steel spherical shells Shariati, M., Allahbakhsh, H.R., Shariati, A.R., Nazarian, S., Sanati, E. <i>Ferdowsi University of Mashhad</i>
A-10-792-4	Effect of inter-critical heat treatment n mechanical properties of DP steels Hatefi, S., Davari, M., Mansouri, M. <i>Najafabad Branch, Islamic Azad University</i>
A-10-805-1	Wear behavior investigation of Nano-hBN coating using FEA and pin on disc experiments Taraz Jamshidi, Y., Pourkamali Anaraki, A., Akhavan, B. <i>University of Shahid Rajaei</i>
A-10-808-1	Progressive finite element damage analyses of a cracked composite laminate under static tensile loading using Puck failure criterion Heidari-Rarani, M., Jahadi R., Karami, P. <i>University of Isfahan</i>
A-10-815-2	Enhancement of Mechanical Properties of Hydroxyapatite/Sulphonated Poly Ether Ether Ketone Treated Layer Almasi, D., Izman, S., Roozbahani, F., Sadeghi, M., Iqbal, N., Abdul Kadir, M.R. <i>Universiti Teknologi Malaysia</i>
A-10-828-2	Evaluation of Cooling High Temperature Electronic Devices with FEM and Experimental Method Araee, A., Jokari, H.T., Farrokhi, A.R., Fathi, A. <i>University of Tehran</i>
A-10-831-2	Finite Element Simulation and Experimental Study of Ramp Up and Holding Time on Seat Belt Anchorage Test according to ECE R14 and FMVSS 207 Barza, M., Khajehzadeh, M., Kavousi, M. <i>Amirkabir University of Technology</i>
A-10-833-1	Effects of tip relief modification on static transmission error of spur gear Mohaghegh, S.H., Poursina, M., Heidari-Rarani, M. <i>University of Isfahan</i>

A-10-840-1	The Influence of Nanosilica on Energy Absorption Capacity of Composite Tubes Bagherian, P., Rahimi, G.H., Liaghat, G.H., Rahimi, H. <i>Tarbiat Modares University</i>
A-10-843-1	Evaluating the effects of fully and locally ceramic coatings on optimizing the temperature gradient of a gasoline engine piston Mirshahi, E., Golbakhshi, H., Khoshnam, F., Namjoo, M. <i>University of Jiroft</i>
A-10-843-3	Evaluating the effects of lubricating oil temperature and thermal dam on optimizing the thermal gradient and thermal strains on skirt region of a specified piston Golbakhshi, H., Namjoo, M., Khoshnam, F., Mirshahi, E. <i>University of Jiroft</i>
A-10-847-1	Experimental and Numerical Investigation into Behavior of Nano Filament Winding Composite Tubes under Ballistic Impact Rahimi, sh.H., Rahimi, Gh., Liaghat, Gh., Bagherian, P. <i>Tarbiat Modares University</i>
A-10-856-1	Experimental study of the ratcheting effect on the fatigue life of welded aluminium 2024-T351 Amini, M., Ekhteraee, H., Shariati, M. <i>Ferdowsi University of Mashhad</i>
A-10-865-1	Length Effect on Charpy Impact Response of U-Notched Marble- Experimental Investigation Daghigh, H., Jalalifar, H., Daghigh, V., Nikbin, K. <i>Shahid Bahonar University of Kerman</i>
A-10-871-1	The effect of distance and angle of the additional holes on the fatigue life of a single hole specimen containing hole edge cracks Poursaeidi, E., Bazvandi, H. <i>University of Zanjan</i>
A-10-872-3	Simulation of Rigid Spherical Projectile Impact to Aluminum Plate, using Finite Element Method Haji Aboutalebi, F., Siavashi, F. <i>University of Isfahan</i>

A-10-880-1	A study on effect of TPU and clay nanoparticles on the mechanical behavior of PBT-based nanocomposites Chalabi Tehran, A., Faraji Kalajahi, P., Shelesh-Nezhad, K., Olad, A. <i>University of Tabriz</i>
A-10-892-1	Analytical Buckling Analysis of The Isotropic Thin Plate With Circular/Rectangular Cutout Talezadehlari, A., Rahimi, G.H. <i>Tarbiat Modares University</i>
A-10-894-2	Investigation of Residual Stress Distribution in Bent Beams by Slitting Method Joudaki, J., Sedighi, M. <i>Iran University of Science and Technology</i>
A-10-900-1	Experimental Study of highly filled nanocomposites in batch foam process Taghavimehr, M., Famili, M.H.N., Golbang, A. <i>TarbiatModares University</i>
A-10-901-1	Regional Hyperelastic Parameters Identification of Bovine Meniscus using Flat Punch Indentation Imeni, M., Seyfi, B., Fatourae, N. <i>Amirkabir University of Technology</i>
A-10-903-1	Introducing a New Small-Specimen Method to Evaluate the Creep Properties of Al2024-T851 Moradi, A., Soltani, N., Nobakhti, H. <i>University of Tehran</i>
A-10-906-1	Creep Life Prediction Methods Of IN 713LC Superalloy Behjati, M., Farhangi, H. <i>Islamic Azad University</i>
A-10-907-2	Experimental investigation of FGM dental implant properties made from Ti/HA composite Omidi, N., Jabbari, A.H., Sedighi, M. <i>Iran University of Science and Technology</i>
A-10-914-1	Experimental Study of Polyurethane/Polycaprolactone (PU/PCL) Shape Memory effect in different thermo-mechanical conditions Abbasi, M., Golzar, M., Baghani, M., Ansari, M., Taghavimehr, M., Tavakkoli, A. <i>University of Tarbiat Modares</i>
A-10-918-2	Hardness Properties of latania natural fiber reinforced PP/EPDM green composites subjected to thermal cycles Fereidoon, A.B., Daghigh, V., Nikbin, K. <i>Jasb Branch, Islamic Azad University</i>

A-10-941-1	A Novel Method for Hot Pressing of Thin Plates Akbari, H.A., Partovy, R. <i>Iran University of Science and Technology</i>
Poster Presentations (February 17, 2016, 10:30-12:00)	
A-10-341-13	Dynamic constitutive model to predict the shear behavior of UD glass/epoxy composites Shokrieh, M.M., Shamaei Kashani, A.R. <i>Iran University of Science and Technology</i>
A-10-341-14	Predicting cohesive zone parameters in mode I delamination growth of laminated composites using inverse method Shokrieh, M.M., Damirchiloo, S., Salamat-talab, M. <i>Iran University of Science and Technology</i>
A-10-341-17	Design and manufacturing of new a fire retardant coating system for polymer composites Shokrieh, M.M., Kheradpishah, M. <i>Iran University of Science and Technology</i>
A-10-375-8	Experimental Investigation of Cold Metal Shaping of Circular Tubes into a Semicircular Section Niknejad, A., Haghparast Boozanjani, K. <i>Yasouj University</i>
A-10-375-11	Semicircular Composite Tubes During the Quasi-Static Indentation Experiments Niknejad, A., Taghizadeh, S.A. <i>Yasouj University</i>
A-10-375-13	Numerical Simulations of Flattening Process on Aluminum Open Sections Niknejad, A., Ziaee, S., Pasereh, F., Zohrabi, M. <i>Yasouj University</i>
A-10-424-5	A study on residual stress measurement in hollow samples using contour method Mahmoudi, A.H., Yousefzadeh, D., Hosseinzadeh, A.R. <i>University of Bu-Ali Sina</i>
A-10-525-6	Fracture analysis of blunt V-notched PMMA under compression-shear loading Bahrami, B., Ayatollahi, M.R., Torabi, A.R. <i>Iran University of Science and Technology</i>

A-10-526-3	Numerical Investigation of a Fiber Reinforced Composite (FRC) Crashbox under Axial Impact Loading Mirzaei, S., Beheshti, H. <i>University of Isfahan</i>
A-10-575-4	Fatigue life prediction of an aircraft lug assembly subjected random loading Taheri-Behrooz, F., Haghighat-Nezhad, B. <i>Iran University of Science and Technology</i>
A-10-678-10	Autonomous Self-healing fiber metal laminates Khalili, S.M.R., Mirzaghali, E. <i>K. N. Toosi university of Technology</i>
A-10-741-2	An Experimental Investigation on Forming Limit Diagram of Two-Layer Metallic Sheets Karajibani, E., Hashemi, R., Sedighi, M. <i>Iran University of Science and Technology</i>
A-10-762-2	On the Flexural Behavior of Multiscale Nano-Silica/E-glass/Epoxy Anisogrid-Stiffened Composite Structures Khosravi, H., Eslami-Farsani, R., Khalili, S.M.R. <i>K. N. Toosi University of Technology</i>
A-10-772-1	Frequency analysis of orthotropic Kelvin-Voigt viscoelastic circular and elliptical nanoplates using boundary characteristic orthogonal polynomials and Rayleigh-Ritz method Moosavi, H., Ariaei, A.R., Hasanpour, K. <i>University of Isfahan</i>
A-10-788-1	Dynamic stress intensity factor of finite piezoelectric composite plate under impact load Fotouhi, S., Khalili, S.M. <i>K.N. Toosi University of Technology</i>
A-10-789-3	An experimental investigation on energy absorption behavior of thin-walled aluminum semispherical shells with and without foam Shariati, M., Nazarian, S., Sanati, E., Shariati, A. <i>Ferdowsi University of Mashhad</i>
A-10-792-3	Martensite Volume Fraction Effect on the Dual-Phase Steel Work Hardening Behavior Hatefi, S., Davari, M., Mansouri, M. <i>Najafabad Branch, Islamic Azad University, Najafabad</i>

A-10-801-1	Dimensional Simulation of Rod Rolling in Crossing First to Fourth Stand of No-Twist Mill by the Use of FEM Arooni, H., Mouloudi, S., Khojasteh, J. <i>Isfahan University of Technology</i>
A-10-807-1	Implementation of GTN parameters in drop weight tear testing on API X65 Steel Fathi-Asgarabad, E., Majidi-Jirandehi, A.A., Hashemi, S.H. <i>University of Birjand</i>
A-10-815-1	Mathematical Model for Prediction of Material Flow and Analysis of Lateral Extrusion of Gear-Like Components with Radial Tooth Profile Using Slab Method Almasi, D., Rasaei, S., Abbassi, K., Haghghat, H. <i>Universiti Teknologi Malaysia</i>
A-10-817-1	Experimental investigation of compression properties of basalt continuous filament epoxy composite filled with shape memory wire Khalili, S.M.R., Rajabpour, M., Jafarinezhad, M.R., Maher, R. <i>Semnan Branch, Islamic Azad University</i>
A-10-820-1	Experimental Measurement to Investigate the T-shape Weld of Steel Plates Vakili-Tahami, F., Ziaei-Asl, A., Majnoun, P. <i>University of Tabriz</i>
A-10-826-1	Experimental and numerical investigation on low velocity impact of GLARE fiber metal laminates Yarmohammad Tooski, M., Khalili, S.M.R., Ghajar, R. Islamic Azad University, South Tehran Branch
A-10-827-1	A Study on Critical Points and Fatigue Behavior of a Gas Regulator Die-cast Mold through Numerical Simulation Matin, K., Mortazavian, S.M.E., Hosseini ballam, M. <i>Isfahan University of Technology</i>
A-10-830-1	Helical Gear Profiles Modification to Reduce Noise Poursina, M., Shirali, P. <i>University of Isfahan</i>
A-10-831-3	Finite Element Simulation and Experimental Study of Luggage test according to ECE R17 using LS Dyna Barza, M., Khajehzadeh, M. <i>Amirkabir University of Technology</i>

A-10-839-1	Vibration Analysis of a thin Plate with Piezoelectric Energy Harvester Using Finite Element Method Paknejad, A., Rahimi, G.H., Salmani, H. <i>University of Tarbiat Modares</i>
A-10-841-2	Experimental study of high strain rate effects on 1010 steel sheet forming Sadeghi Chahardeh, A.R., Naghdabadi, R. <i>Sharif University of Technology</i>
A-10-843-2	A detailed 3D FEM analysis for optimizing the thermo-mechanical stresses generated in the piston of a gasoline engine XU7 Namjoo, M., Golbakhshi, H., Khoshnam, F., Mirshahi, E. <i>University of Jiroft</i>
A-10-844-1	The Behavior of Composite Sandwich Panel Stiffened with Square Corrugated Composite Core and Foam Filled under In-Plane Compressive Load Mohammadi, A.A., Rahimi, G.H. <i>Tarbiat Modares University</i>
A-10-853-1	fatigue damage evaluation by image processing from surface feature for aluminum 2024-T351 alloy Chabouk, E., Shariati, M. <i>Ferdowsi University of mashhad</i>
A-10-858-2	Investigation of tool speed effect on Fracture Toughness of Aluminum Alloy 2024-T351 Friction Stir Weld joints by means of Digital Shearography Ghahremani Moghadam, D., Farhangdoost, Kh. <i>Ferdowsi University of Mashhad</i>
A-10-863-2	Avoidance control of UAV quadrotor for dynamic obstacle avoidance Khanmirza, E., Amini Farshchi, M.M., Maghsoudi, A. <i>Iran University of Science and Technology</i>
A-10-867-1	On Functionally Graded Rectangular Plates with Linear Variable Thickness under Different BCs Using a Meshless Method Pilafkan, R., Bakhshi, S. <i>Mohaghegh Ardebili University</i>
A-10-872-1	Comparison between the Extended and Conventional Finite Element Methods in Prediction of Failure Load of V- Notch Specimens under Mixed Mode Loading Nasrnia, A., Haji Aboutalebi, F., Poursina, M. <i>University of Isfahan</i>

A-10-874-1	Investigation the effect of deep cold rolling on the surface quality of brass C38500 Atrian, A., Mombeini, D. <i>Najafabad Branch, Islamic Azad University</i>
A-10-885-1	An experimental Study to Measure the Resonance Frequency of a Submerged Beam in Fluid Imani, H., Hashemi, A. <i>Amirkabir University of Technology</i>
A-10-889-1	A Method Based on Generalized Stress Intensity Factor for Predicting the Effect of Adhesive Thickness on Bonded Joint Failure Bahri, A., Afshin, M. <i>Damavand Branch, Islamic Azad University</i>
A-10-902-1	A novel optimization technique for identifying stacking sequence and elastic constants in composite laminates Ghasemi-Ghalebahman, A., Moradi-Golestani, M. <i>Semnan University</i>
A-10-907-1	Effect of Rolling Process on Mg/SiC Magnesium Matrix Composites Mohammadi, S., Jabbari, A.H., Sedighi, M. <i>Iran University of Science and Technology</i>
A-10-908-1	Analytical determination of the storage and loss modulus of MR by using the optimization algorithm ICA Kamalian, N., Mohammadi, N., Rastegari, R. <i>Parand Branch, Islamic Azad University</i>
A-10-912-1	Experimental Investigations on the Buckling Behavior of Unstiffened, Lozenge Grid-Stiffened and Lozenge Lattice Composite Cylindrical Shells Under Axial Loading Talezadehlari, A., Rahimi, Gh., Liaghat, Gh., Moeinifard, M. <i>Tarbiat Modares University</i>
A-10-914-2	Experimental and Numerical Evaluation of Polyurethane/Polycaprolactone (PU/PCL) strip Shape Memory Effect Ansari, M., Golzar, M., Baghani, M., Soleimani, M., Abbasi, M., Nikzad Jamnani, M., Tavakkoli, A. <i>Tarbiat Modares University</i>
A-10-932-1	Numerical Investigation on the Ballistic Performance of Multi-layer Kevlar Fabrics Impregnated with a Shear Thickening Fluid Hasanzadeh, M., Mottaghtalab, V., Babaei, H., Fazlipour, A. <i>University of Guilan</i>

A-10-939-1

Optimal Design of Arcuate Double-Sided Magnetic Gear for Wind Turbine Application

Afsari, S.A., Heydari, H.

Iran University of Science and Technology