



International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering Systems



CDAMIES-2018 - Program Schedule

DAY-1			
18.01.2018			
09.00-10.00	Registration		
10.00-11.00	Inaugural Ceremony (Venue : EEE Auditorium)		
11.00-11.30	<p>Keynote: Decoding the DNA of the Health Care Delivery Process by Utilizing a Systems Approach - Understanding the Man, Machine, Method, Material and Environment Interactions in Comparison to Manufacturing and Service Industries</p> <p>Dr. Jayant Trewn, Fellow ASQ, Department of Industrial and Systems Engineering, College of Engineering, Wayne State University, Michigan, USA</p>		
Session-1	Lean Manufacturing (Venue : EEE Auditorium)		
11.30-11.45	IND-125	Applying Lean Manufacturing Principle in an Automobile Industry value Stream Mapping Analysis	S. Mahendran, Department of Mechanical Engineering, Anna University, Pattukkottai
11.45-12.00	IND-219	Application of ISM for Analyzing the Factors of Lean and Green Implementation in Indian SMES	S. N. Sathiya Narayana, Department of Production Technology, NIT, Trichy
12.00-12.15	IND-259	Maynard Operation Sequence Technique For Labor Productivity Improvement	K. Jayakrishna, School of Mechanical Engineering, VIT University, Vellore
12.15-12.30	IND-293	Methodology to Improve the Trainer Quality of Time Management in the Training Institute	N. Karuppanna Prasad, Technical Training Centre, TVS Training and Services Ltd, Chennai
12.30-12.45	IND-329	Analyzing Factors for Implementation of Lean and Green SMEs Manufacturing Industries using Modified ISM	S.N. Sathiya Narayana, Department of Production Engineering, NIT, Trichy
12.45-13.00	IND-342	Process Improvement using Lean Six Sigma Techniques "A Perception of Indian SMEs"	D. Vishnushankar, Velammal College of Engineering and Technology, Madurai
13.00-14.00	Lunch (BARN Hall)		
Session-2	Lean Manufacturing (Venue : EEE Auditorium)		
14.00-14.15	IND-347	Conception and integration of Lean Six Sigma elements with ISO 9001:2015 standard based Quality Management System	S. Vijayakumar, Department of Mechanical Engineering, Anna University, Chennai
14.15-14.30	IND-367	Graph Theory approach and its applications in decision making – A state of art review	K. Jayakrishna, School of Mechanical Engineering, VIT University, Vellore
14.30-14.45	MFG-245	Innovation of Low Cost and High Security IOT Based Environmental Monitoring Using ATMEGA328 Microcontroller	V. Vijayasaro, Department of Electronics and Communication Engineering, PRIST University, Thanjavur

14.45-15.00	MFG-350	An Efficient Secure E-Health System in Cloud Based IoT Network Using Two Way Authentication	A. S. Anakath, Department of CSE, E. G. S. Pillay Engineering College, Nagapattinam
15.00-15.15	MFG-373	Development of Technology Assistance for the Patients with Cerebral Palsy and Mental Retardation	M. Sathiyadevi, Oxford Engineering College, Trichy
15.15-15.30	MFG-383	Assessment of Green Dielectrics on Sustainable Electrical Discharge Machining of AISI 2507 Super Duplex Steel	V. Srinivas Viswanth, School of Mechanical Engineering, VIT University, Vellore
15.30-16.00	Coffee Break		
Session-3	Sustainable Manufacturing/Automobile (Venue : EEE Auditorium)		
16.00-16.15	IND-182	Preparation of Biodiesel From Non Edible Oils	R. Rajkumar, Department of Mechanical Engineering, Sriguru Institute of Technology, Coimbatore
16.15-16.30	IND-190	Effects of Injection Timing on the Performance and Emission Analysis of LHR Diesel Engine Coated With Zirconia and Fuelled With Methyl Ester Diesel Blends	C. Arunkumar, DDU-KAUSHAL Kendra, Bharathidasan University, Trichy
16.30-16.45	IND-211	Embodied product energy minimization of an automotive component	K. Jayakrishna, School of Mechanical Engineering, VIT University, Vellore
16.45-17.00	IND-225	Performance and emission analysis of a diesel engine with biodiesel of different non-edible oils	M. Mohanraj, Sri Guru Institute of Technology, Coimbatore
17.00-17.15	IND-275	Fuzzy logic based sustainability assessment using artificial neural network	K. Jayakrishna, School of Mechanical Engineering, VIT University, Vellore
17.15-17.30	IND-295	Comprehensive models to ensure sustainability and remanufacturing: A case study	K. Jayakrishna, School of Mechanical Engineering, VIT University, Vellore
17.30-17.45	MFG-117	Mechanical Characterization of Epoxy-Glass/Poly Propylene Fiber Reinforced Composite	Guna Sekhar Reddy, Department of Mechanical Engineering, Madanapalle Institute of Technology & Science, AP
17.45-18.00	MFG-118	A combined artificial neural network and acousto-ultrasonic approach towards prediction of tensile strength of glass fiber reinforced composite	S. Ramkumar, Department of Mechanical Engineering, Aalim Muhammed Salegh College of Engineering, Chennai
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Session-4	Supply Chain Management (Venue : A-2 Hall)		
11.30-12.00	Keynote: Digital Manufacturing and Planning Dr. K. Ganesh , Senior Knowledge Expert, Supply Chain Management, Center of Competence, McKinsey & Company, Inc, Chennai		
12.00-12.15	IND-124	A Multi-Product Multi-Period Production Distribution Planning Model for a Supply Chain with Partial Information Sharing	T. V. S. R. K. Prasad , Department of Mechanical Engineering, Kallam Haranadhareddy Institute of Technology, Guntur, AP

12.15-12.30	IND-339	Modeling of a Two Echelon Supply Chain for a Perishable Product	B. J. Sreejith, NIT, Calicut
12.30-12.45	IND-353	Investigating the influence of the rescheduling priority rules in face of disruption and AHP-GRA based decision making in a supply chain	Konteti VNVN Rao, Department of Mechanical Engineering, VEMU Institute of Technology, P. Kotha Kota, AP
12.45-13.00	IND-364	Identification and Prioritization of Barriers for an Omni Channel Supply Chain Using SEM	T. Niranjana, Department of Production Engineering, NIT, Trichy
13.00-14.00	Lunch (BARN Hall)		
Session-5	Machining/Drilling (Venue : A-2 Hall)		
14.00-14.15	MFG-179	Assessment of Delamination on CFRP Drilling Under Chilled Air Environment	A. S. S. Balan, Centre for Innovative Manufacturing Research, VIT University, Vellore
14.15-14.30	MFG-277	Effect of coating and texturing on machining of Grade 5 Ti alloy using Semi-solid lubricant	D. Arulkirubakaran, Department of Mechanical Engineering, Adhi College of Engineering and Technology, Kanchipuram
14.30-14.45	MFG-281	Process Capability Analysis of Microchannels in EDM when Processing Inconel 718	P. Rajasekaran, Department of Mechanical Engineering, MAR College of Engineering and Technology, Trichy
14.45-15.00	MFG-319	Surface Integrity When Machining of Hard Materials with Coated Carbide Cutting Tools	D. Gunasekar, OASYS Institute of Technology And Management, Tamilnadu
15.00-15.15	MFG-327	Investigation of cutting speed aspects on cutting force, tool wear, and surface roughness in turning of Ti6Al4V with PVD - AlCrN coated cutting inserts under wet machining	S. Lakshmanan, Department of Mechanical Engineering, Anna University, Chennai
15.15-15.30	DES-263	Computer Aided High precision Angular Drill Jig development for Aerospace Component	N. Sankaranarayanan, DRDL Kancharbagh Hyderabad
15.30-16.00	Coffee Break		
Session-6	Machining/Drilling (Venue : A-2 Hall)		
16.00-16.15	MFG-250	Effects of Process parameters on Hole Circularity error and Hole Taper in CO2 Laser Microdrilling of Si3N4 - TiN composite	N. Gunavathi, Adithya Institute of Technology, Coimbatore
16.15-16.30	MFG-267	Simulation Modeling and Experimental Study of Turning Process of Inconel 600 with Al2O3 Coated Carbide Tool	M. Sivaramakrishnaiah, JNTU Kakinada, AP
16.30-16.45	MFG-345	Machinability of Titanium Alloy 6242 by Abrasive Water Jet Machining	R. Prasanna, Department of Mechanical Engineering, Sethu institute of Technology, pullor, kariyapatti, virudhunagar
16.45-17.00	MFG-352	The effect of cryogenic cooling using liquid nitrogen on workpiece surface roughness parameters and cutting tool wear when turning Hastelloy C-22.	P.R. Nethaji, Department of Mechanical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai

17.00-17.15	MFG-374	Experimental Investigation of Cryogenic Assisted Boring Setup	C. Chandrasekhara Sastry, Department of Mechanical Engineering, Anna University, Chennai
17.30-17.45	MFG-376	Experimental investigation on machining of Ti-6Al-4V alloy using Powder Mixed Electrical Discharge Machining	D. Lenin Singaravelu, Department of Production Engineering, NIT, Trichy
17.45-18.00	MFG-384	Machining Investigations of a Free Form Curve	M. Sekar, GMR Institute of Technology, Rajam , AP
DAY-1			
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Session-7	Optimization-Taguchi (Venue : A-11 Hall)		
11.30-11.45	MFG-101	Optimization Of Fiber Weight And Fiber Length For Fabrication Of Short Flax Fiber Reinforced Polyester Composites Using Robust Design Analysis	K. Arun Prasath, Department of Mechanical Engineering, Kalasalingam University, Krishnankoil
11.45-12.00	MFG-143	Optimization of Cryogenic Diamond Burnishing Process Parameters on 17-4 PH Stainless Steel using Taguchi Method	B. Sachin, Department of Mechanical Engineering, NIT, Surathkal
12.00-12.15	MFG-191	Application of Taguchi Technique in Determining the Optimum Process Parameters of Friction Stir Welded Al 6082 Alloy	G. Girish, Department of Production Engineering, NIT, Trichy
12.15-12.30	MFG-197	Analysis and optimization of Cylindrical Grinding process on EN31 Medium carbon steel	S. Bilalahamed, Department of Mechanical Engineering, Saranathan College of Engineering, Trichy
12.30-12.45	MFG-246	Application of Taguchi Design Method to Optimize the Wire Electrical Discharge Machining Parameters	M. Fakkir Mohamed, Department of Automobile Engineering, Mookambigai College of Engineering, Pudukkottai
12.45-13.00	MFG-251	Single objective optimization of Incremental sheet metal forming parameters on wall angle and sum of strain in AA5052	Radhika Thangavelu, Department of Mechanical Engineering, GCE, Sengipatti, Thanjavur
13.00-14.00	Lunch (BARN Hall)		
Session-8	Optimization-Taguchi (Venue : A-11 Hall)		
14.00-14.15	MFG-115	Investigations on Laser glazing of Lanthanum based TBCs Using Taguchi Approach	S. R. Dhinesh Kumar, Department of Aerospace Engineering, Lakireddy Bali Reddy College of Engineering, AP
14.15-14.30	MFG-276	Application of Taguchi's Robust Design Methodology for Quality Improvement in an Aerospace Component Manufacturing Industry	M. Shilpa, Department of Industrial Engineering and Management, Ramaiah Institute of Technology, Bangalore
14.30-14.45	MFG-280	Function of the Taguchi based Desirability function analysis to enhance a GFRP drilling performance	M. John Fernandes, Department of Mechanical Engineering, MAR College of Engineering and Technology, Trichy

14.45-15.00	MFG-306	Optimization of Process Parameters of Ti-6Al-4V to itself and Stainless Steel Brazed Joints using low Temperature Filler Metal by Taguchi Method	S. V. Anil Kumar, P S G College of Technology, Coimbatore
15.00-15.15	MFG-390	Investigation of AISI 1040 Steel in Turning using Box-Behnken Design Method	Sreejith S. Nair, Department of Mechanical Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi, TN
15.15-15.30	MFG-116	Experimental investigation and optimization of electrical discharge alloying of Al 7075 alloy with Nickel powder	A. Haja Maideen, Department of Mechanical Engineering, A. V. C. College of Engineering, Mayiladuthurai
15.30-16.00	Coffee Break		
Session-9	Optimization-Taguchi/GRA/RSM (Venue : A-11 Hall)		
16.00-16.15	MFG-108	Multi-Parametric optimization of Universal Cylindrical grinding using Grey Relational Analysis	Sandeep Kumar, Department of Mechanical Engineering, M. Kumarasamy College of Engineering, Karur
16.15-16.30	MFG-109	Hybrid optimization of EDM parameters for Hexagonal profile Cu electrode to measure form tolerance on Nickel based superalloy	S. Dhanabalan, Department of Mechanical Engineering, M. Kumarasamy College of Engineering, Karur
16.30-16.45	MFG-156	Grey Based Fuzzy Optimization of Magnetic Abrasive Finishing on SS310S	K. Suganeswaran, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai, Erode
16.45-17.00	MFG-221	Multiple Regression Analysis using Response Surface Methodology (RSM) for Drilling Al 2219 – SiCp Composite	Ganesh Radhakrishnan, Department of Mechanical Engineering, Velammal Engineering College, Chennai
17.00-17.15	MFG-253	Microdrilling of CFRP Composites using Combined Taguchi Based Grey Relational Analysis	D. Raj Kumar, Department of Production Engineering, JJ College of Engineering and Technology, Trichy
17.15-17.30	MFG-269	Experimental Evaluation of Aluminum -Glass Functionally Graded Materials by Controlled Mold Filling	P. Nanda Kumar, Department of Mechanical Engineering, N.B.K.R. Institute of Science and Technology, Vidyanagar, Nellore
17.30-17.45	MFG-363	Fabrication and Testing of Ceramic Reinforced Al7075 MMC	M. Arun Prasad, Department of Production Engineering, NIT Trichy
17.45-18.00	MFG-380	Optimization of EDM process parameters on Ti-6Al-4V by grey relational analysis	R. Prithvirajan, Madanapalle Institute of Technology and Science, Madanapalle, AP
DAY-1			
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Session-10	Composites-MMC/PMC (Venue : A-12 Hall)		
11.30-11.45	MFG-133	An investigation of dispersion of grapheme nano sheets with copper powder	N. Vijay Ponraj, Department of Mechanical Engineering, PSN College of Engineering and Technology, Tirunelveli

11.45-12.00	MFG-138	Fabrication of Al-Cu-SiC composite by conventional and two-step sintering	G. Subramanyam, SASTRA University, Thirumalaisamudram, Thanjavur
12.00-12.15	MFG-149	Experimental Investigation on Tensile and Stress Relaxation Behavior of Polyamide 6/ Montmorillonite Composite	Krishna Murthy, Department of Mechanical Engineering, G.V.P School of Engineering, Visakhapatnam, AP
12.15-12.30	MFG-153	Acoustics and Vibration Behavior of Jute Polyester Composites	S. Senthilrajana, Department of Mechanical Engineering, A.V.C. College of Engineering, Mayiladuthurai
12.30-12.45	MFG-185	Evaluation and Prediction of Mechanical Properties of Al/SiC Nano composites Fabricated by Powder Metallurgy Route	Kalidindi Sita Rama Raju, Department of Mechanical Engineering, S.R.K.R Engineering College, Bhimavaram, A.P
12.45-13.00	MFG-207	Effect of Tool Pin Profile on Tensile Strength and Ductility of Friction Stir Processed LM25AA-5% SiCp Metal Matrix Composites	M. Vinoth, Department of Mechanical Engineering, University College of engineering BIT campus, Anna University, Trichy
13.00-14.00	Lunch (BARN Hall)		
Session-11	Composites-MMC/PMC (Venue : A-12 Hall)		
14.00-14.15	MFG-126	Microstructural and Mechanical Behavior of AA7068 Reinforced with ZnO Using Powder Metallurgy	K John Joshua, Centre for Research in Metallurgy Laboratory, Department of Mechanical Engineering, Karunya University, Coimbatore
14.15-14.30	MFG-183	Characterization of Mechanical Properties of Particulate Carbon Nano and Crab Shell Powder Reinforcement in Polybenzoxazine matrix	S K Rajesh Kanna, Department of Mechanical Engineering, Rajalakshmi Institute of Technology Chennai
14.30-14.45	MFG-188	Effect of glass fiber hybridization on properties of Roselle Natural Fiber – Reinforced Vinylester Composite	T. Dinesh, J.N.N Institute of Technology, Chennai
14.45-15.00	MFG-209	Development and Evaluation of Glass powder/asbestos powder Reinforced Epoxy Composite	U. Karthikeyan, Department of Mechanical Engineering, Sri Guru Institute of Technology, Coimbatore
15.00-15.15	MFG-210	Development of HSHC Cu–W Composites by Friction Stir Processing: Effect of traverse speed	R. Arockia Kumar, Department of Metallurgical and Materials Engineering, NIT Warangal
15.15-15.30	MFG-212	Free Vibration analysis of corrugated laminated composite panel	Vishesh Ranjan Kar, Department of Design & Automation, School of Mechanical Engineering VIT University, Vellore
15.30-16.00	Coffee Break		

Session-12		Composites-Natural (Venue : A-12 Hall)	
16.00-16.15	MFG-226	Comparison of Neat Epoxy and Fiber Reinforced Epoxy Concrete Flooring	Aravinthan Gokulakrishnan, Department of Materials Science and Engineering, CARE Group of Institutions, Trichy
16.15-16.30	MFG-193	Fabrication and Characterization of Animal Fiber Reinforced Polymer Composites	K. Selvakumar, Department of Manufacturing Engineering, College of Engineering Guindy, Anna University, Chennai
16.30-16.45	MFG-199	Study on Mechanical Behavior of Banana Fiber Reinforced Epoxy Composites	S. Chandrakanth, Department of Manufacturing Engineering, OASYS institute of Technology, TN
16.45-17.00	MFG-208	Development and Mechanical Characterization of Teak, Pattak-Polyester Natural Fiber Composites	A K Arun Raja, Sathyabama University, Chennai
17.00-17.15	MFG-215	Tensile and Thermal Behavior of Hennotanic Acid Coated Coir Fibers	T. Raghavendra, Department of Production Engineering, NIT, Trichy
17.15-17.30	MFG-217	Comparison of Machinability Studies of Cotton and Jute fiber Reinforced with Epoxy Composites	S. Ramakrishnan, Department of Production Engineering, NIT, Trichy
17.00-17.45	MFG-354	Investigation of Mechanical Properties and Tribological Properties of SiC Nano Particle Reinforced AA2014 Metal Matrix Composite	K. Shanmuga Sundaram, Department of Mechanical Engineering, Anna University, Chennai
17.45-18.00	MFG-337	Surface Modification of AZ61 Magnesium alloy with Nano TiO ₂ /Al ₂ O ₃ using Laser Cladding Technique	S. Sundaraselvan, Arasu Engineering College, Kumbakonam
DAY-1			
18.01.2018			
Session-13		Materials/Additive Manufacturing (Venue : A-13 Hall)	
11.00-11.30	Keynote: Additive Manufacturing for Design and Development of Aeronautical Systems Dr. U. Chandrasekhar , Pro-Vice Chancellor, VeITech University, Chennai		
11.30-11.45	MFG-144	To Reduce Environmental Pollution by Thermal Reclamation in Foundry Industry and Achieve Green Manufacturing	P. Kumar, Nehru Institute of Engineering and Technology, Coimbatore
11.45-12.00	MFG-194	A Review on Energy Related Studies of Additive Manufacturing Technologies	Satyam Kharra, Department of Production Engineering, NIT, Trichy
12.00-12.15	MFG-168	Alloying effect on the Strain Hardening Behavior of Al-Cu-Mg Powder Metallurgy Preforms	Sai Mahesh Yadav Kaku, Department of Metallurgical and Materials Engineering, NIT Warangal
12.15-12.30	MFG-301	Evaluation of WEDM machining Parameters for aviation materials.	Venkata Ramanaiah Darla, Department of Engineering Mechanical ,ACE Engineering College, Hyderabad

12.30-12.45	MFG-328	Effect of Sacrificial Filler Material on the Micro structure and Mechanical Properties of 316l Stainless Steel Foam	K. Shanmuga Sundaram, Department of Mechanical Engineering, Anna University, Chennai
12.45-13.00	MFG-340	3D Printing of Various Components using Custom made 3D Printer	B. Satyanarayana, Department of Mechanical Engineering, VNR VJiet, Bachupally, Hyderabad
13.00-14.00	Lunch (BARN Hall)		
Session-14	Materials/Additive Manufacturing (Venue : A-13 Hall)		
14.00-14.15	MFG-177	Application of Metal Spraying in Decorative, Electrical and other Engineering Industries	T. Srihari, Aditya College of Engineering and Technology, Surampalem, East Godavari
14.15-14.30	MFG-186	FLD and void Analysis of SS430 using Multipoint Forming Tool	K. Ramkumar, Department of Mechanical Engineering, Dhanalakshmi Srinivasan Institute of Technology, Trichy
14.30-14.45	MFG-189	Metallurgical Evaluation of Super Critical Materials – SA 335 P 92	M. Vinoth, Department of Mechanical Engineering, Anna University, Trichy
14.45-15.00	MFG-200	Tribological studies on ASTM 440C steel diffusion bonded with nickel foil	A R Suresh, Department of Mechanical Engineering, Kathir College of Engineering, Coimbatore
15.00-15.15	MFG-231	Development and Prediction of High Performance Al-Al ₂ O ₃ Nano Composites	N. Harsha, Department of Mechanical Engineering, S.R.K.R Engineering College, Bhimavaram
15.15-15.30	MFG-154	Effect of Thrust Force and Torque on Kevlar Reinforced Composites during Drilling Process	A. Mohankumar, School of Building and Mechanical Sciences, Kongu Engineering College, Perundurai
15.30-16.00	Coffee Break		
Session-15	Welding (Venue : A-13 Hall)		
16.00-16.15	MFG-122	Structural Analysis of LM25 Al Pipe Welding Joint and Effects of Heat Affected Zone in Cracking Failure of Welded LM25 Aluminium Pipe Joint	Deepak Aravind, Material Testing Lab, Velammal Institute of Technology, Anna University Chennai
16.15-16.30	MFG-123	Evaluation of the Hardness and Microstructure Behavior of Optimizing Welding Parameter in Butt Welding Joint of LM25aluminium Plate	Deepak aravind, Material Testing Lab, Velammal Institute of Technology, Anna University Chennai
16.30-16.45	MFG-131	Development and Characterization of Biodegradable Blending Starch / PVA Films Theoretical and Experimental Comparison	K. Trinath, Department of Mechanical Engineering, NIT, Calicut
16.45-17.00	MFG-136	Non-destructive testing and evaluation of friction stir welded AA6063 circularly butted pipes	S. M. Senthil, Department of Mechanical Engineering, Kongu Engineering College, Erode

17.00-17.15	MFG-139	A Feasibility study on Mechanical and Microstructural properties of Friction Stir Welded Austenitic stainless steel (SS 316l) joints	G. Sundarraju, Department of Mechanical Engineering, Bannari Amman Institute of Technology, Erode
17.15-17.30	MFG-170	An Insight on Cold Metal Arc Transfer (CMT) Cladding Process	A. Evangeline, Department of Production Engineering, NIT, Trichy
17.30-17.45	MFG-195	Experimental analysis of friction Stir Welding on Dissimilar Al6063 and Brass Alloys	S. Dharmalingam, Department of Mechanical Engineering, OASYS institute of Technology, Tamilnadu
17.45-18.00	MFG-386	Investigation of Mechanical Properties and Tribological Properties of SiC Nano Particle Reinforced AA2014 MMC	M. Ravikumar, CECASE, NIT, Trichy

DAY-2			
19.01.2018			
Session-16		Scheduling/Routing (Venue : EEE Auditorium)	
09.30-09.45	IND-175	Integrated Production and Distribution Scheduling Problem to Minimize Total Cost Using Multi Start Simulated Annealing Algorithm	S. Porselvi, Department of Mechanical Engineering, K. L. N. College of Engineering, Pottapalayam
09.45-10.00	IND-372	Analysis of a Multi-Channel Closed Loop Green Supply Chain Using Modified Particle Swarm Optimization Algorithm	T. Niranjan, Department of Production Engineering, NIT, Trichy
10.00-10.15	DES-318	Design and Fabrication of Automatic Bottle Filling, Capping Machine using PLC	C. Jegadheesan , Center for Research and Development, College of Engineering, Defense University, Bishoftu, Ethiopia
10.15-10.30	MFG-387	Application of Additive manufacturing in Orthopedics cases: A Review	Mohd Sabir Rabbani Khan, Yeshwantrao Chavan College of Engineering ,Nagpur
10.30-11.00	Keynote: Dynamic Real-Time Scheduling of Batch Processing Machines in Semiconductor Manufacturing Dr. M. Mathirajan , Chief Research Scientist, Department of Management Studies, Indian Institute of Science, Bangalore		
11.00-11.30	Coffee Break		
Session-17		Surface Engineering/Nano (Venue : EEE Auditorium)	
11.30-12.00	Keynote: Key Challenges and Road Ahead to 3D Printing Dr. S. Soundarapandian , Assistant Professor, Department of Mechanical Engineering, IIT Madras		
12.00-12.15	MFG-166	Wet Combustion and hydrolysis Synthesis of Cerium Oxide nanoparticles and Superior Chemical- Mechanical polishing on Soda Lime Glass	C. Ramesh Kumar, Department of Manufacturing Engineering, Anna University, Chennai
12.15-12.30	MFG-180	Isothermal behavior of multilayered La ₂ Zr ₂ O ₇ /YSZ thermal barrier coating	Mujeebulla Khan Guttal, Department of Mechanical Engineering, STJIT Ranebennur, Haveri, Karnataka
12.30-12.45	MFG-187	Performance Investigation of Alumina Nanofluid as Working Fluid in a Thermosyphon Heat Pipe	R. Sureshkumar, Department of Mechanical Engineering, R. M. K. Engineering College, Kavaraipettai, Gummidipoondi
12.45-13.00	MFG-232	Corrosion behavior of ultra-fine-grained Al-Mg alloy processed by Equal Channel Angular Pressing through route A	S. RameshKumar, School of Mechanical Engineering, SASTRA University, Thanjavur
13.00-14.00	Lunch (BARN Hall)		
Session-18		Surface Engineering/Nano (Venue : EEE Auditorium)	
14.00-14.15	MFG-241	Laser Hardening of Wheel Surface for Rail Wheel Contact of LHB Coaches to Reduce the Problem of Wheel Shelling	R. Ravichandran, CECASE, NIT, Trichy.

14.15-14.30	MFG-282	Role of TiB reinforcement on the corrosion behavior of Titanium composites in Neutral Chloride solution	M. Selvakumar, Department of Automobile Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi
14.30-14.45	MFG-298	Nitriding for Corrosion	J. Sathesh, Department of Mechanical Engineering, SJB Institute of Technology Karnataka, Bangalore
14.45-15.00	MFG-303	PLD Deposited ZnO Thin Film for Improving Defects Emission	M. Manikandan, Department of Mechanical engineering, Alagappa Chettiar College of Engineering and Technology, Karaikudi
15.00-15.15	MFG-317	Characterization of Induction Hardened and Tempered AISI 1045 Steel	G. D. Wenish, Department of Mechanical Engineering, Ponjesly College of Engineering, Nagercoil
15.15-15.30	MFG-320	Evaluation of Straightness Error for 'U' Section Machined component using Vision System	K. Krantiku, Department of Mechanical Engineering, Dayananda Sagar College of engineering, Bangalore
15.30-16.00	Coffee Break		
Session-19	Sustainable Manufacturing (Venue : EEE Auditorium)		
16.00-16.15	IND-104	Currency notes wastage processing and utilization techniques towards sustainable manufacturing	G. Matani, Department of Mechanical Engineering, Government College of Engineering, Amravati
16.15-16.30	MFG-249	Experimental investigation of Performance and emission characteristics of CI engine fuelled with mahua oil blended diesel fuel with camphor as additive	Rishi Malhotra, Department of Mechanical Engineering, SRM University, Trichy
16.30-16.45	MFG-286	Experimental investigation of oxygen enrichment in supercharged Diesel engine	R. Arul Prakash, Department of Aeronautical Engineering, Kumaraguru College of Technology, Coimbatore
16.45-17.00	IND-105	Optimum plastics wastage utilization as resource inventory in Indian road construction industries	G. Matani, Department of Mechanical Engineering, Government College of Engineering, Amravati
17.00-17.15	IND-150	Hazardous impact of lubricants on the health of living organism and environment	Shivam Jaiswal, School of engineering and technology (Vikram University), Madhya Pradesh
17.15-17.30	IND-240	Enhancing Water Supply Systems and Resources Effectiveness by Utilizing ICT Tools	G. Matani, Department of Mechanical Engineering, Government College of Engineering, Amravati
17.30-17.45	IND-146	Scheduling Algorithm For Quality Of Service (QoS) Optimization In Computer Networks Using Fuzzy Queuing Model	B. Palpandi, Anna University, BIT Campus, Trichy
17.45-18.00	MFG-148	Surface Modification of Duplex Stainless Steel by Electrical Discharge Coating with Copper and Nickel Powder	I. Arun, Madanapalle Institute of Technology and Science, Madanapalle, AP

DAY-2			
19.01.2018			
Session-20		Industrial Engineering & Optimization (Venue : A-2 Hall)	
09.30-09.45	IND-242	Application of Key Performance Indicators for Apparel Manufacturing Industry	S. Kavitha, Department of Fashion Technology, Kumaraguru College of Technology, Coimbatore
09.45-10.00	IND-274	Reliability analysis of One shot weapon system with sub system and Full system test data	S. Muthukumar, DRDO, Hyderabad, Telangana
10.00-10.15	IND-336	Computation of optimum cutting layout using nontraditional approaches	K. Ramesh, Department of Mechanical Engineering, MIET Engineering College, Trichy
10.15-10.30	IND-341	Virtual support for Physicians through Machine Learning for breast cancer diagnosis: An Engineering approach to healthcare sector – A review	G. Suresh, Department of Production Engineering, NIT, Trichy
10.30-11.00	Keynote: Concept of Integrated Margin Management in a Large Oil Refining and Marketing Organization Mr. Ramakrishnan Subramanian , Head of Product Placement Planning, Integrated Margin Management, Hindustan Petroleum Corporation Limited, Mumbai		
11.00-11.30	Coffee Break		
Session-21		Tribology (Venue : A-2 Hall)	
11.30-12.00	Keynote: Ultrafast Laser Technologies for Micro Fabrication and Surface Functionalization Dr. Suwas Nikumb , Senior Research Officer, National Research Council of Canada, Ontario, London		
12.00-12.15	MFG-135	Three body abrasive wear of basalt fabric reinforced polyester and vinyl ester composites	C. Anand Chairman, K. Ramakrishnan college of Engineering, Trichy
12.15-12.30	MFG-159	Study on Mechanical and Tribological Properties of AA 2024 Matrix Composites Reinforced with MoS ₂ Particulates	Rajesh Siriyala, Department of Mechanical Engineering, S.R.K.R. Engineering College (A), Bhimavaram, AP
12.30-12.45	MFG-181	Wear Studies on Pure Aluminium with Red mud Metal Matrix Composites Fabricated by Powder Metallurgy	Neelima Devi Chinta, Department of Mechanical Engineering, University College of Engineering, JNTUK-UCEV Vizianagaram, A.P
12.45-13.00	MFG-243	Classification of machined surfaces using image processing for the prediction of surface roughness	Nathan Dhanapalan, Department of Mechanical Engineering, St. Joseph's Institute of Technology, Chennai.
13.00-14.00	Lunch (BARN Hall)		
Session-22		Tribology (Venue : A-2 Hall)	
14.00-14.15	MFG-297	Wear Behavior of Nitriding	Puneeth, Department of Mechanical Engineering, Vivekananda College of Engineering & Technology, Puttur, Karnataka.
14.15-14.30	MFG-300	Influence of Ag nanoparticle for the antiwear characteristics on mineral oil based Nanocutting-fluid	L. Prabu, Department of mechanical engineering, Sri Shanmugha College of Engineering , TN

14.30-14.45	MFG-307	Study the Abrasive Wear Behavior of Pack Borided AISI 1040 Steel	A. Arulbrittoraj, Department of Mechanical Engineering, Ultra College of Engineering and Technology for Women, Madurai
14.45-15.00	MFG-315	Tribological Characterization of AZ91 Magnesium Alloy Reinforced with 5wt%WC Particulates	P. Karuppusamy, Department of Automobile Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi
15.00-15.15	MFG-351	Tribological Behavior of Friction Stir Processed Glass Fiber Reinforced (GFR) Polyamide 66 Composite	R. Nandhini, Department of Metallurgical and Materials Engineering, NIT, Trichy
15.15-15.30	MFG-362	Effect of laser surface micro-texturing on the corrosion behavior of nickel based superalloy	Balamurali Krishnan Narayanan , Gas Turbine Research Establishment, DRDO, Bangalore
15.30-16.00	Coffee Break		
Session-23	Industrial Engineering & Optimization (Venue : A-2 Hall)		
16.00-16.15	IND-368	Recent developments in drug design workflow management systems	Amr Alhossary, School of Computer Science and Engineering, Nanyang Technological University, Singapore
16.15-16.30	IND-371	Consumer Behavior Analytics using Big Data in Fashion Industry	C. R. Arjun Kumar, Easa College of Engineering and Technology, Coimbatore
16.30-16.45	MFG-279	Estimating the 'Performance Centers' of India and their Movements using Geodetic Coordinates and Weiszfeld algorithm	A. Baskar, Panimalar Institute of Technology, Chennai
16.45-17.00	MFG-355	Maximizing the lifetime of Wireless Sensor Network using Optimization Techniques and Integrating with Cloud Services	P. Parthiban, Nehru Institute of Engineering and Technology, Coimbatore
17.00-17.15	IND-358	Technologies and Effective Strategies for Road Vehicles towards Minimizing Vehicular Road Accidents	A. G. Matani, Department of Mechanical Engineering, Government College of Engineering, Amravati
17.15-17.30	DES-299	Effectiveness of Rotavator towards Improved Agricultural Productivity: A Case Study	A. G. Matani, Mechanical Engineering, Government College of Engineering, Amravati
17.30-17.45	MFG-377	Effect of Bio-organic Nano-Fillers on the mechanical and thermal properties of Basalt Fiber Reinforced Composites	S. Prakash, Department of Mechanical Engineering, CEG, Anna University, Chennai
17.45-18.00	MFG-332	Challenges for Industry 4.0 in Indian industries	S. SaiYogesh, Velammal College Of Engineering and Tech, Viraganoor, Madurai
18.00-18.15	MFG-382	Performance evaluation of process parameters on ultrasonic assisted Micro EDM drilling process	R. Manivannana, Department of Chemical Engineering, NIT, Trichy
18.15-18.30	MFG-114	Critical factors for implementation of lean in Indian government sectors	M. Periya Karuppan, OFT, Kanpur, Uttar Pradesh

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Session-24		Optimization-RSM/GRA/GA (Venue : A-11 Hall)	
09.30-09.45	MFG-161	Sequential and Parallel Hybridization of Firefly and Particle Swarm Optimization Techniques for the Constrained Machining Parameters of Steel and Polymer materials	N. Sathiya Narayanan, School of Mechanical Engineering, SASTRA University, Tanjore
09.45-10.00	MFG-172	Experimental Investigation on INCOLOY 800H using Cryogenically treated PVD coated tool in Turning Process	A. Palanisamy, Department of Production Engineering, NIT, Trichy
10.00-10.15	MFG-205	Parametric optimization of Abrasive Water Jet Machine Parameters on Mg/SiC composite	K. Balamurugan, Department of Mechanical Engineering, VFSTR University, Guntur
10.15-10.30	MFG-218	Multi-Response Optimization of Abrasive wear of Polypropylene/Cloisite 30B/Elvaloy-AC-3427 nano composites Using Response Surface Methodology	Jafrey, Department of Production Engineering, NIT, Trichy
10.30-11.00	MFG-236	Multi Objective Optimization for Modern Manufacturing Technique Stresses in Drilled Stainless Steel Material	N. Parthipan, Department of Mechanical Engineering, M. Kumarasamy College of Engineering, Karur
11.00-11.30	MFG-254	Optimization of Process parameters in Wire EDM of HCHCrD2 using RSM-based Multi-objective Genetic Algorithm	M.V. Prasad, Department of Mechanical Engineering, G.V.P. School of Engineering, Visakhapatnam, AP
Session-25		Optimization-TOPSIS/RSM/GA (Venue : A-11 Hall)	
11.30-11.45	MFG-157	Material Selection for Electrical Switching Applications using MCDM Methodologies	S. Praveen Kumar, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai, Erode
11.45-12.00	MFG-255	Modeling analysis and Effect of Sparking parameters on circularity and feret's diameter of blind hole drilling for aluminium alloy	V. Senthilkannan, Department of Mechanical Engineering, JJ College of Engineering and Technology, Trichy
12.00-12.15	MFG-289	Multi-objective optimization of heat exchanger using Al ₂ O ₃ /water nano fluid with tube inserts using RSM method	D. Mala, Department of Mechanical Engineering, University College of Engineering, AnnaUniversity, Panruti
12.15-12.30	MFG-308	Multi Objective optimization based Performance evaluation of novel 3 DoF RS type parallel Mechanisms-NSGA-II approach	K. Balaji, Indian Institute of Information Technology Design & Manufacturing (IIITD&M) Kancheepuram, Melakottaiyur, Chennai
12.30-12.45	MFG-313	Characterization of Alzheimer Disease based on Image processing and Feature Extraction Algorithms	R. Pandian, Department of EIE, Sathyabama University, Chennai

12.45-13.00	MFG-316	Investigation and Optimization of Electromagnetic Die Forming Parameters on AA5083 Sheet Metal	P. Arumugam, Rajalakshmi Engineering College, Chennai
13.00-14.00	Lunch (BARN Hall)		
Session-26	Optimization-TOPSIS/RSM/GA (Venue : A-11 Hall)		
14.00-14.15	MFG-324	Application of Response Surface Methodology and Firefly Algorithm for Optimizing Multiple Responses in Turning of EN8 Steel	S. K. Thangarasu, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai, Erode
14.15-14.30	MFG-325	Effect of Compression Testing In 2024 Aluminum Alloy by Thermal Treatment	T. Nagaraj, Department of Mechanical Engineering , SBM College of Engineering &Technology, Dindigul
14.30-14.45	MFG-344	Optimization of AWJM parameters of titanium alloy 6242 using PS Algorithm	R. Prasanna, Department of Mechanical Engineering, Karpagam Academy of higher education, Pollachi main road, Eachanari Post, Coimbatore
14.45-15.00	MFG-348	Optimization of Process Parameters in Broaching of AISI1045 Steel under Cryogenic cooling condition	M. Pradeep Kumar, Department of Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai
15.00-15.15	MFG-110	Processing Optimization of Multiple Quality Characteristics on Electrical Discharge Machining of Haste Alloy Using TOPSIS	Ramesh Raju, Department of Mechanical Engineering, Santhiram Engineering College, Nandyal, AP
15.15-15.30	MFG-171	Analysis on Thermal Behavior of Multi Walled Carbon Nanotubes Composites for Thermal Engineering Applications	C. Dhavamani, Department of Mechanical Engineering, Mahendra Engineering College, Namakkal
15.30-16.00	Coffee Break		
Session-27	Composites-Natural/ Nano/Glass/MMC (Venue : A-11 Hall)		
16.00-16.15	MFG-270	Effect of Lamina Fiber Orientation on Flexural And Impact Properties of Sansevieria Cylindrica/ Coconut Sheath Polyester Hybrid Composites	C. Bennet, Department of Mechanical Engineering, Center for Composite Materials, Kalasalingam University, TN
16.15-16.30	MFG-357	Mechanical and Thermal Characterization of Seashell reinforced Nylon66 Polymer Matrix Composite	N. Senthilkumar, Adhiparasakthi Engineering College, Melmaruvathur
16.30-16.45	MFG-375	A study of Light Weight Metal composites	Ashutoshyadav, Department of Mechanical Engineering, Aligarh Muslim University, Aligarh, Uttar Pradesh
16.45-17.00	DES-227	Damage Detection in Composite Laminated Beams Using Finite Element - Based Modal and Harmonic Analysis	G. Mahendran, R.M.K Engineering College, Gummidipundi
17.00-17.15	MFG-235	Experimental Investigation of Drilling Parameters of Glass Polymer	M. Mithun, Sathyabama University, Chennai

17.15-17.30	MFG-256	Development and Characterization of Magnesium MMC Processed Through Friction Stir Processing	V Jaya Prasad, Department of Mechanical Engineering, UCEK, JNTUK Kakinada, AP
17.30-17.45	MFG-268	Experimental Investigation of AA7075 Reinforced With SiC , TiC & B ₄ C Metal Matrix Composites (MMC)	B. Nagarajan, Department of Mechanical Engineering, Nadar Saraswathi College of Engineering and Technology, Theni
17.45-18.00	MFG-388	Modeling and prediction of Influence of Drilling Parameters on Performance Measures of Inconel 718 Superalloy	J. Jeevamalar, Department of Mechanical Engineering, E.G.S. Pillay Engineering College, Nagapattinam
18.00-18.15	MFG-111	Wear Behaviour Of Partially Dissolved Graphite Cast Iron Using Laser Surface Melting In Corrosive Medium	G. Prabu, Department of Production Engineering, NIT, Trichy
18.15-18.30	MFG-113	Microstructure and wear resistance enhancement of nodular cast iron by laser surface melting	N. Jeya Prakash, Department of Production Engineering, NIT, Trichy
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Session-28	Mechanisms/Design & Fabrication (Venue : A-12 Hall)		
09.30-09.45	DES-102	An approach of lever mechanism to enhance the efficiency of manually operated Powder Press	Iyer Rahul Rajesh, Department of Mechanical engineering, TRP Engineering College, Trichy
09.45-10.00	DES-129	Modeling of ECAP Process to Study the Effect of Die Parameters and Friction Coefficient on Equivalent Plastic Strain	Gopal D Gote, Department of Mechanical Engineering, NITK, Surathkal
10.00-10.15	DES-130	Design and Fabrication of Tooth Shape Bolt and Nut Protector	V. Sivaramkumar, Department of Mechanical Engineering, K. L. N. College of Engineering, Pottapalayam
10.15-10.30	DES-164	Design and Fabrication of Unmanned Guided Vehicle for Material Handling in Industries	P. Praveen Kumar, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai, Erode
10.30-11.00	Keynote: Green Design and Manufacturing Dr. A. G. Matani, Associate Professor, Department of Mechanical Engineering, Government College of Engineering, Amravati		
11.00-11.30	Coffee Break		
Session-29	Mechanisms/Design & Fabrication (Venue : A-12 Hall)		
11.30-11.45	DES-165	Design and development of RFID based intelligent storage and retrieval system	S. Ravishankar, Department of Mechatronics, Bannari Amman Institute of Technology, Sathyamangalam, Erode
11.45-12.00	DES-173	Design and Analysis of FSAE Crash Box	Shashank Pansari, Department of Mechatronics Engineering, Manipal Institute of Technology, Manipal University, Manipal

12.00-12.15	DES-203	Experimental Modeling and Development of CVT with Reduced Slippage	N. Bhuvanesh, Department of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode
12.15-12.30	DES-214	Improving the Load Carrying Capacity through Asymmetric Spur Gear using WC-Fe Metal Matrix Composite for Automobile Applications	P. Marimuthu, School of Mechanical Engineering, SASTRA University Thanjavur
12.30-12.45	DES-257	Determination of effect of Geometrical Parameters of a Magneto rheological Damper for achieving optimum Magnetic Flux	AJD Nanthakumar, Department of Automobile Engineering, Rajalakshmi Engineering College, Thandalam, TN
12.45-13.00	DES-304	Autonomous Multirotor UAV With Vision Based Landing System	Balaji Thiru, Department of Mechanical Engineering, Veltech University, Chennai
13.00-14.00	Lunch (BARN Hall)		
Session-30	Mechanisms/Design & Fabrication (Venue : A-12 Hall)		
14.00-14.15	DES-333	Design and Development of Eco-Friendly Biomass Cookstoves	Shivkumar V. Khidse, Department of Mechanical Engineering, Marathwada Institute of Technology, Maharashtra
14.15-14.30	DES-334	Contact Stress Analysis of Asymmetric Helical Gears	P. Marimuthu, School of Mechanical Engineering, SASTRA University, Thanjavur
14.30-14.45	DES-335	Safety in Car Accident by Fly-Over Method	A. Ahamed Mukthar, Department of Mechanical Engineering, M. A. R. College of Engineering & Technology, Pudukkottai
14.45-15.00	DES-369	Probabilistic analysis of boiler tubes using FEA	B. Thiyagarajan, Department of Production Engineering, NIT Trichy
15.00-15.15	MFG-309	Rejuvenation of Wheel Cylinder Using Vacuum Technology in Vehicle Braking System	R. Anbalagan, Department of Automobile Engineering, Rajalakshmi Engineering College, Thandalam
15.15-15.30	MFG-311	Hydro leak analysis of conventional valves	R. Ramya, Department of Mechatronics Engineering, Kongu Engineering College, Erode
15.30-16.00	Coffee Break		
Session-31	Mechanisms/Design & Fabrication (Venue : A-12 Hall)		
16.00-16.15	MFG-323	Design and Analysis of Jacquard Shedding Mechanism in Weaving Machinery	K. Shanmuga Sundaram, Department of Mechanical Engineering, Anna University, Chennai
16.15-16.30	MFG-343	Experimental Study on the influence of Resin Coated Sand properties on surface finish in shell mould casting	N. M. Sivaram, Department of Mechanical Engineering, Karpagam Academy of Higher Education, Karpagam University, Coimbatore

16.30-16.45	MFG-356	Multiple Sheet Single Point Incremental Forming for dual phase steel sheet	K. A. Selvarajan, Department of Production Engineering, NIT, Trichy
16.45-17.00	MFG-365	Automated alert system for monitoring the tyre pressure to prevent road accidents due to leakage issues	S. Vignesh, Department of Mechatronics, Bannari Amman Institute of Technology, Sathyamangalam
17.00-17.15	MFG-378	Reducing Emissions in Automobiles: by Improving the Efficiency of Catalytic converter & by selecting alternate materials for steel to increase fuel economy.	T. M. Ganesh, Department of Production Engineering, NIT Trichy
17.15-17.30	IND-385	Performance Evaluation of a CUK Converter in DC/DC Conversion System and Performance Improvement by Stage Cascading Technique	Md. Mahbubur Rahman, Department of Computer Science and Engineering, Military Institute of Science and Technology, Mirpur Cantonment, Dhaka, Bangladesh
17.30-17.45	MFG-296	Physico-chemical, Mechanical and Thermal characterization of Moringa Oleifera fiber as potential bio-reinforcement in polymer composites	J. S. Binoj, Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati, AP
17.45-18.00	MFG-310	Development and Testing of Green Composites for Roofing Applications	S. Swetha, Department of Mechatronics Engineering, Kongu Engineering College, Erode
18.00-18.15	MFG-112	Tool Wear Measurement of Multipoint Triangular Milling Insert	G.V.K Pradeep, Department of Production Engineering, NIT, Trichy
18.15-18.30	MFG-287	A study on the Effect of Process Parameters on Hardness Behavior of Friction Stir Additive Manufactured Al1100 Aluminium Plates	K.Ganesa balamurugan, Department of Production Engineering, NIT, Trichy
DAY-2			
19.01.2018			
Session-32	Laser (Venue : A-13 Hall)		
09.30-09.45	MFG-174	Experimental and Micro-structural Analysis of Micro Hole Arrays in Ti-6Al-4V Material Using ND: YAG Laser Drilling Machine	N. Sathya Narayanan, School of Mechanical Engineering, SASTRA University, Tanjore
09.45-10.00	MFG-202	Microstructure Analysis of Laser Surface Melted & Laser Cladded Magnesium (AZ91D) alloy	Muthukumaran, School of Mechanical Engineering, SASTRA University, Tanjore
10.00-10.15	MFG-381	Compression of cycle time in the development of starting system hardware of gas turbine engine	Suparna Pal, Gas Turbine Research Establishment, DRDO, Bangalore
10.15-10.30	MFG-331	Influence of laser printed pattern on the Mechanical & surface Properties of AlSi10Mg processed by selective laser melting	S. Rajkumar, Department of Chemicals and Petrochemicals, ARSTPS, Chennai
10.30-11.00	Keynote: Laser Machined Superhydrophobic Surface Dr. R. Jagdheesh , COFUND , Marie Curie Fellow, Polytechnical University of Madrid, Spain		
11.00-11.30	Coffee Break		

Session-33		Manufacturing Management (Venue : A-13 Hall)	
11.30-12.00	Keynote: Convergence of Technology and Its Impact on Productivity Mr. S. V. Subrahmanian , HR, OD & Leadership Consultant, Bangalore		
12.00-12.15	IND-160	Outpatient Flow Management by Reducing Waiting Time Between Stages	J. Praveen, Department of Industrial Engineering, Thiagarajar College of Engineering, Madurai
12.15-12.30	IND-262	Behavioral Analysis of Employees towards Personal Protective Equipment	H. Abdul Zubar, Department of Mechanical Engineering , Knowledge Institute of Technology, Kakapalayam, Salem
12.30-12.45	IND-361	Identification of Best Supplier among Industries through Supplier Selection Criteria and ANP Methodology	K. Dharun Prashanth, Department of Production Engineering, NIT, Trichy
12.45-13.00	IND-379	Supplier Selection through Industry Needs and ISM methodology	K. Dharun Prashanth, Department of Production Engineering, NIT, Trichy
13.00-14.00	Lunch (BARN Hall)		
Session-34		Casting /Welding (Venue : A-13 Hall)	
14.00-14.15	MFG158	Application of Lean Tools to Improve the Foundry Practices	N. SenthilKannan, Department of Mechanical Engineering, Sri Ramakrishna Engineering College, Coimbatore
14.15-14.30	MFG-184	Influence of Alumina on Aluminum Metal Matrix (LM25-Zn) Fabricated through Stir Casting Technique	M. Ramesh, Department of Mechanical Engineering, K. Ramakrishnan College of engineering, Samayapuram, Trichy
14.30-14.45	MFG-206	Investigation of Aluminium Metal Matrix with TIC and Graphite Using Stir Casting	K. P. Shankar, Sri Guru Institute of Technology, Coimbatore
14.45-15.00	MFG-216	Microstructure & Mechanical Properties of Dissimilar Material Joints between Martensitic & Austenitic Steels using GTAW welding process	Shaleen Shray Tigga, Department of Production Engineering, NIT, Trichy
15.00-15.15	MFG-222	Classification of Welding Defects in Ultrasonic Testing Using Artificial Intelligence	S. Sambath, Department of Mechanical Engineering, R.M.K Engineering College, Thiruvallur
15.15-15.30	MFG-228	Effects of GMAW process parameters deposited by Stainless Steel Claddings multi-bead overlaps	R. Madesh, Kumaraguru College of Technology, Coimbatore
15.30-16.00	Coffee Break		
Session-35		Casting /Welding (Venue : A-13 Hall)	
16.00-16.15	MFG-238	Casting Defect Reduction by Simulation Technique	Amar Yekane, Department of Mechanical Engineering, Finolex Academy of Management and Technology, Ratnagiri, Maharashtra

16.15-16.30	MFG-239	Experimental investigation and mathematical model development for optimization of process parameters of AL5005/C27200 dissimilar friction stir spot welded joints	S. Siddharth, Department of Mechanical Engineering, University College of Engineering, BIT Campus, Anna University, Trichy
16.30-16.45	MFG-258	Selection of welding process of S304H Tubes in STBW machine for super critical power plant Boilers using Analytic hierarchic process	Karre Srikanth, Department of Production Engineering, NIT, Trichy
16.45-17.00	MFG-285	Comparison of Mechanical and Corrosion Behavior of TIG and Friction Stir Welded AA7075 Joints	B. S. Kulkarni, Center of Excellence-Metallurgy and Material Engineering, Marathwada Institute of Technology, Aurangabad, Maharashtra
17.00-17.15	MFG-290	Experimental Analysis of Stir Casting Electrode (Al 6063, B4C) For Electrical Discharge Machining	C. Mathalai Sundaram, Nadar Saraswathi College of Engineering & Technology, Theni
17.15-17.30	MFG-291	Microstructure characterization of resistance spot welded AA6063 T6 sheet for transportation applications	B. D. Y. Sunil, Institute of Aeronautical Engineering, Hyderabad
17.30-17.45	MFG-305	Experimental Investigation of Resistance Spot Welding On Mild Steel (G3302) and Stainless Steel (Ss202) Sheets	Gaurab Kumar Ghosh, Indira Gandhi Institute of Technology, Sarang, Odisha
17.45-18.00	MFG-312	Pre-processing of Ultrasonic Signals Austenitic Stainless Steel Weld at High Temperature	R. Pandian, Department of EIE, Sathyabama University, Chennai
18.00-18.15	MFG-169	Influence of Electrode Material Properties on Electrical Discharge Machining of Inconel 718 Alloys	R. Manivannana, Department of Chemical Engineering, NIT, Trichy
17.15-18.30	MFG-271	Performance Evaluation of Cryogenically Cooled Electrode in Micro Electrical Discharge drilling (μ EDM) Process	R. Manivannana, Department of Chemical Engineering, NIT, Trichy

DAY-3			
20.01.2018			
Session-36		Eco-Friendly Manufacturing (Venue : EEE Auditorium)	
09.30-09.45	IND-147	Framework for Green Manufacturing: A Case Study	Ranjitsinh Deshmukh, Walchnad Institute of Technology, Solapur, Maharashtra
09.45-10.00	IND-233	Analysis of Green House Gas Emission from Packing & Logistics Industries	P. Benrajesh, Sathyabamama University, Chennai
10.00-10.15	IND-252	A Case Study on Investigation and Analysis of Occupational Noise in Textile Industries	S. Aravind Raj , School of Mechanical Engineering, VIT University, Vellore
10.15-10.30	IND-260	The Study On Hazardous Identification And Risk Assessment Of Trichloroethylene(TCE) In Chemical Industry, Southern Coastal Part of India	H. Abdul Zubar, Department of Mechanical Engineering, Knowledge Institute of Technology, Kakapalayam
10.30-11.00	Keynote: Green e-tailing: An Extension of Greenness to On-line Sales Dr. Usha Ramanathan , Associate Professor, Department of Management, Nottingham Trent University, UK		
11.00-11.30	Coffee Break		
Session-37		Heat Transfer/ Computational Fluid Dynamics and Fluid Mechanics (Venue : EEE Auditorium)	
11.30-11.45	DES-178	Fluid flow analysis of Intake System and Air Filter of an Automobile using CFD	S. Vinodh, Department of Aeronautical Engineering, Mahendra Engineering College, Namakkal
11.45-12.00	DES-234	Dimensionless analysis design model of ETHP solar water heating system by using Nano-fluid coupled with PTC	Sumedh S. Jagtap, Department of Mechanical Engineering, Datta Meghe Institute of Engineering, Technology & Research Salod (Hirapur), Wardha, Maharashtra
12.00-12.15	DES-244	Design and Analysis of an Atomizer for Fluid Flow in Water Taps	Ramji Gurunathan, Department of Mechanical Engineering, Sri Ramakrishna Engineering, Coimbatore
12.15-12.30	DES-302	Improvement in Design of Fuel Priming System for Heavy Loaded Trucks	U. Arivan, Department of Mechanical Engineering, Sri Shakthi Institute of Engineering and Technology, Coimbatore
12.30-12.45	MFG-272	Effect of Stagnation Point Heat Transfer Characteristics of an Impinging Air Jet at Various Materials – A study	K. Jeyajothi, Department of Chemical Engineering, NIT, Trichy
12.45-13.00	MFG-273	Study of Heat transfer Fluid Flow Characteristics of an Impinging Air Jet on Flat Plate	K. Jeyajothi, Department of Chemical Engineering, NIT, Trichy
13.00-14.00	Lunch (BARN Hall)		

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20.01.2018			
Session-38		Multi Criteria Decision Making (Venue : A-2 Hall)	
09.30-09.45	IND-192	Comparison of Multi Criteria Decision Making Techniques for Crop Selection	Balamurugan Gunasekar, Department of Mechanical Engineering, Amrita School of Engineering, Coimbatore
09.45-10.00	IND-220	Application of Best-Worst method for material selection of an electronic component considering environmental aspects	K.J. Manjunatheshwara, Department of Production Engineering, NIT, Trichy
10.00-10.15	IND-224	Integrated Fuzzy Dematel and Fuzzy Topsis with TLBO to Evaluate Supplier and Order Allocation in Green Supply Chain	T Niranjan, Department of Production Engineering, NIT, Trichy
10.15-10.30	IND-264	An Integrated Model for Selection of 3PL Provider Using Fuzzy TOPSIS	M. Nadanakumar, Department of Production Engineering, NIT, Trichy
10.30-11.00	Keynote: Challenges in SCM for Aerospace & Defence Business in India Mr. Swaminathan Vaidyanathan, COO & Founder, Surge Engineering Services, Bangalore		
11.00-11.30	Coffee Break		
Session-39		Multi Criteria Decision Making (Venue : A-2 Hall)	
11.30-11.45	IND-265	Evaluation of 3PL Provider Using ELECTRE Method	M. Nadanakumar, Department of Production Engineering, NIT, Trichy
11.45-12.00	IND-366	A Multi-objective Non-Linear Programming Model for Optimization of services in a Printing Shop	Sushant Sam Varghese, Department of Production Engineering, NIT, Trichy
12.00-12.15	IND-338	A Hybrid Optimization Approach for the Multi-Depot Pollution-Routing Problem with simultaneous deliveries and pickups	Sonu Rajak, Department of Production Engineering, NIT, Trichy
12.15-12.30	DES-151	Computer Aided Framework to Select Geometric Tolerances considering Machining and Manufacturing attributes for an Assembly using Fuzzy-TOPSIS	A. Saravanan, Department of Production Engineering, NIT, Trichy
12.30-12.45	MFG-176	Multi-Criteria Optimization of Laser Micro Drilling Process of Nickel Based Super Alloy, a Response Surface Methodology - Grey Relational Analysis Approach	P.V. Sivaprasad, Department of Production Engineering, NIT, Trichy
12.45-13.00	IND-152	Design Strategies for Part and Bill of Material in Manufacturing Industries	Sam George, School of Computer Science, Bharathiar University, Coimbatore
13.00-14.00	Lunch (BARN Hall)		

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20.01.2018			
Session-40		Composites-Natural (Venue : A-11Hall)	
09.30-09.45	MFG-119	Mechanical Properties of Nano Fiber Composite Membrane for Effective Air Filtration Using Artificial Neural Network with Fish Swarm Optimization	V.S. Kandavel, Department of Mechanical Engineering, Karunanidhi Institute of Technology, Coimbatore
09.45-10.00	IND-223	Optimum Allocation of Inland Coal in India: A Case Study Using Fuzzy Approach	A. John Rajan, School of Mechanical Engineering, Vellore Institute of Technology, Vellore
10.00-10.15	MFG-237	A Review of Recent Developments in Bast Natural Fiber Composites and their Mechanical Performance	V. Rajadurai, Department of Mechanical Engineering, NSN College of Engineering and Technology, Karur
10.15-10.30	MFG-247	Recent prospects of bioplastics and its applications	K. Panneerselvam, Department of Production Engineering, NIT, Trichy
10.30-10.45	MFG-278	Comparison on Machining Performance of Peak-Aged PH Stainless Steel with Various Inserts	D. Palanisamy, Department of Mechanical Engineering, Adhi College of Engineering and Technology, Kanchipuram, TN
10.45-11.00	IND-389	Optimization of Performance Parameters For CNC Milling Machine: A Review	K. H. Sharma, Yeshwantrao Chavan College Of Engineering, Nagpur
11.00-11.30	Coffee Break		
Session-41		Design/Fabrication (Venue : A-11 Hall)	
11.30-11.45	MFG-266	Exhaust Gas Reduction Using SAE 40 Oil Treatment For Diesel Engine Exhaust	M. Shilpa, Department of Industrial Engineering and Management, Ramaiah Institute of Technology, Bangalore
11.45-12.00	MFG-292	Some investigations on manufacturing of Mg and Al -nano hybrid-metal matrix composites (NHMMC)	Anand Pandey, Department of Mechanical Engineering, Manipal University Jaipur
12.00-12.15	MFG-294	Wear testing of Al-5083/lignite Coal dust metallic Composite	Anand Pandey, Department of Mechanical Engineering, Manipal University Jaipur
12.15-12.30	DES-163	Design and Analysis of Fixture to Reduce Set-up Time on Vertical Machining Centre	M. Shilpa, Department of Industrial Engineering and Management, Ramaiah Institute of Technology, Bangalore
12.30-12.45	DES-330	Development for ease accessibility to trains from low level platforms	P. Maniraj, Department of Mechanical Engineering, Kamaraj college of Engineering and Technology, Virudhunagar
12.45-13.00	DES-370	Implementation of Electro-Magnets with PZT Sensors for Vehicle Suspension System	M. Shilpa, Department of Industrial Engineering and Management, Ramaiah Institute of Technology, Bangalore

13.00-14.00	Lunch (BARN Hall)		
	DAY-3		
	20.01.2018		
Session-42	Finite Element Analysis & Vibration (Venue : A-12 Hall)		
09.30-09.45	DES-127	Simulation of Failure Prediction of an Automobile Gearbox based on Vibration Analysis	G. Prasanna Kumar Reddy , School of Mechanical Engineering, SASTRA University, Thanjavur
09.45-10.00	DES-137	Performance Analysis of Microchannels with Different Aspect Ratio	Akash Kumar Naik, Department of Mechanical Engineering, NIT, Uttarakhand
10.00-10.15	DES-145	Design and Analysis of Finger Strap Arrangement in Super Critical Boilers Using Ansys	Varanasi Krishna Manohar, School of Mechanical Engineering, SASTRA University, Thanjavur
10.15-10.30	DES-155	Fatigue analysis of AgAlSnO ₂ as Electrical Contact Material	S. Praveen Kumar, Department of Mechatronics Engineering, Kongu Engineering College, Perundurai, Erode
10.30-11.00	<p>Keynote: Applications of Process Simulation</p> <p>Mr. R. Srikanth, Project Manager, Production Modeling India Pvt. Ltd, Nagpur</p> <p>And</p> <p>Mr. Thirumal Sethusivaram, Simulation Engineer Production Modeling India Pvt. Ltd., Nagpur</p>		
11.00-11.30	Coffee Break		
Session-43	Finite Element Analysis & Vibration (Venue : A-12 Hall)		
11.30-11.45	DES-162	Design and Analysis of Roller Shafts for Sugar Cane Mills By Using FEA Technique with Different Parameters	R. R. Karthi, M. Kumarasamy College of Engineering, Karur, TN
11.45-12.00	DES-167	Stress and Modal Analysis of Rectangular Laminated Plate at Various Boundary Conditions	D. R. Rajkumar , Mechanical Department, CARE Group of Institutions, Trichy
12.00-12.15	DES-248	Analysis of Flexural Vibration Behavior of Al-Al ₂ O ₃ FG Thick Plate Using Graded FEM	P. S. Ravi Kumar, Department of Mechanical Engineering, N. B. K. R. Institute of Science & Technology, Vidyanagar, Nellore
12.15-12.30	MFG-261	Measurement of Vibration and Force in Hand - Jack Hammer	H. Abdul Zubar, Department of Mechanical Engineering , Knowledge Institute of Technology, Kakapalayam, Salem
12.30-12.45	DES-283	Experimental investigation of Automotive Compliant Suspension system	Azhagiri Pon, University College of Engineering (BIT Campus), Trichy
12.45-13.00	DES-284	Synthesis, Design and Analysis of Compliant Centrifugal Clutch and Validation through Experimental Analysis	Azhagiri Pon, University College of Engineering (BIT Campus), Trichy
13.00-14.00	Lunch (BARN Hall)		

DAY-3			
20.01.2018			
Session-44		Robotics (Venue : A-13 Hall)	
09.30-09.45	IND-121	Vehicle Routing Problem with Simultaneously Pick-Up and Delivery Based on Customer Satisfaction	Sonu Rajak, Department of Production Engineering, NIT, Trichy
09.45-10.00	IND-196	Balanced Multi - Robot Task Allocation for Maximum Priority and Path Minimization	Abhishek Anand, Sathyabama University, Chennai
10.00-10.15	IND-359	Multi-objective Optimal Trajectory Planning for Wheeled Mobile Robot using MODE and NSGA-II	V. Sathiya, Department of Electronics and Communication Engineering, E. G. S. Pillay Engineering College, Nagapattinam
10.15-10.30	IND-360	Multi Objective Optimal Trajectory Planning of MTAB ARISTO ROBOT using MOPSO and MODE	S. Mahalakshmi, Department of Computer Science and Engineering, E. G. S. Pillay Engineering College, Nagapattinam
10.30-11.00	Keynote: Machine Learning Mrs. Mathangi Ramachandran , Vice President of Citibank, Financial Services, Bangalore		
11.00-11.30	Coffee Break		
Session-45		Casting /Welding (Venue : A-13 Hall)	
11.30-11.45	MFG-314	Finite Element Modeling of Friction Stir Welding to Predict Conditions Resulting in Defect Generation	Mr. Vinayak Malik, Department of Mechanical Engineering, KLS Gogte Institute of Technology, Belagavi, Karnataka
11.45-12.00	MFG-322	Study on the feasibility in welding of austenitic stainless steel and low carbon steel joint using CO2 laser welding process and analysis of its metallurgical and mechanical properties	G. R. Kannan, Department of Mechanical Engineering, PSNA College of Engineering and Technology, Dindigul
12.00-12.15	MFG-346	Influence of Tool Rotation Speed on Mechanical and Microstructural Behavior of Friction Stir Butt Joints of Dissimilar Aa6061-Aa7075 Aluminum Alloys	K. Shanmuga Sundaram, Department of Mechanical Engineering, Anna University, Chennai
12.15-12.30	MFG-349	Friction Stir Welding of Small Diameter Aluminium Pipes	A. N. Praveen Raj, Department of Mechanical Engineering, Anna University, Chennai
12.30-12.45	MFG-326	Effect of ZrO ₂ and Graphite Particulates on Mechanical Behavior of Aluminum Matrix Composite	R. Pandiyarajana, Department of Mechanical Engineering, K L N College of Engineering, Pottapalayam
12.45-13.00	MFG-288	Development of coal dust reinforced Al- 5083 metallic	Anand Pandey, Department of Mechanical Engineering, Manipal University Jaipur
13.00-14.00	Lunch (BARN Hall)		
15.00-16.00	Valediction (EEE Auditorium)		

Consolidated Session Plan

DAY	DAY-1 (18-01-2018)			DAY-2 (19-01-2018)				DAY-3 (20-01-2018)	
Hall	11.30-13.00	14.00-15.30	16.00-18.00	09.30-11.00	11.30-13.00	14.00-15.30	16.00-18.30	09.30-11.00	11.30-13.00
EEE	S1	S2	S3	S16	S17	S18	S19	S36	S37
A2	S4	S5	S6	S20	S21	S22	S23	S38	S39
A11	S7	S8	S9	S24	S25	S26	S27	S40	S41
A12	S10	S11	S12	S28	S29	S30	S31	S42	S43
A13	S13	S14	S15	S32	S33	S34	S35	S44	S45

S-Session