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Materials Science and Engineering

First International Conference on
Materials Science and
Manufacturing Technology 2019
(ICMSMT 2019)

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S.No.	Paper ID	Title of the Paper	Name of the Authors	Affiliation
1.	MS 3011	Investigation on Water Level Regulation Using Floating Sensor and Arduino Uno.	A. Susheel S. Selvendran	CVR College of Engineering, R.R District, Telangana, India.
2.	MS 3030	Application of wavelet analysis to differences in modal rotations for damage identification	A Katunin,	Institute of Fundamentals of Machinery Design, Silesian University of Technology, Konarskiego 18A, 44-100 Gliwice, Poland
		Application of wavelet analysis to differences in modal rotations for damage identification	J V Araújo dos Santos	IDMEC, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal
		Application of wavelet analysis to differences in modal rotations for damage identification	H Lopes	DEM, ISEP, Instituto Politécnico do Porto, Rua Dr. António Bernardino de Almeida, 431, 4249-015 Porto, Portugal
3.	MS 3036	Transport of curcumin from cross-linked chitosan matrices: A comparative study	R Nayak, J Philip, F C Rodrigues, G Thakur	Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal-576104, Karnataka, India.
4.	MS 3060	The Complementary Membership Function of n-Trapezoidal Shape Fuzzy Numbers	Selvam Pandian	Hindustan Institute of Technology and science, Chennai-603 103.
		The Complementary Membership Function of n-Trapezoidal Shape Fuzzy Numbers	Rajkumar Aruthur	Adithya Institute of Technology, Coimbatore-641 701,
		The Complementary Membership Function of n-Trapezoidal Shape Fuzzy Numbers	SudhaEaswari Janakara	Government higher secondary school, Tirupur-638 703, Tamil Nadu, India.
5.	MS 4009	Numerical Investigation of Square Ring Shape Force Transducer	Ajay PratapSingh Sanjoy Kumar Ghoshal,	Indian Institute of Technology - ISM, Dhanbad 826 004, India
		Numerical Investigation of Square Ring Shape Force Transducer	Harish Kumar	Ajay Kumar Garg Engineering College, Ghaziabad 201 009, India
		Numerical Investigation of Square Ring Shape Force Transducer	Ajay Kumar Rai	National Institute of Technology Delhi, Delhi 110 040, India
6.	MS 4011	Sliding Mode Control of VTOL System	Jerry Jacob S Selva Kumar	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India
7.	MS 4013	Design of an automatic device for rehabilitation of the fingers of the hand	Guido Torres Ll., Guido R. Torres,	Universidad de las Fuerzas Armadas ESPE / Departamento de Ciencias

S.No.	Paper ID	Title of the Paper	Name of the Authors	Affiliation
		for people with ictus	Héctor Terán, Marcelo Ortiz, Eduardo Cárdenas, Oscar Arteaga Maqueavelo Hidrovo	de la Energía y Mecánica, Sangolquí, Ecuador
8.	MS 4019	A Review on Challenges and Techniques for Secondary Control of Microgrid	Pranita Singh, Priyanka Paliwal Anoop Arya	Maulana Azad National Institute of Technology (MANIT), Bhopal, 462003, Madhya Pradesh, India
9.	MS 4035	Design of smart garbage landfill monitoring system using Internet of Things	B Swapna, M Kamalahsan, S Sowmiya, Srilekha Konda, T Sai Zignasa	Dr MGR Educational and Research Institute, Chennai, India
10.	MS 4036	Enhancing the Closed Loop Performance of Semi-active Suspension System with I-PD Controller	Govinda Kumar E, Raghul S, Kishore Kumar R Mathan Kumar M, Prasanth C	Karpagam College of Engineering, Coimbatore – 641032, Tamil Nadu, India.
11.	MS 4040	Constant & Reliable Power Supply by the Smart Grid Technology in Modern Power System	Amam Hossain Bagdadee, Li Zhang, Modawy Adam Ali Abdalla	Hohai University, Nanjing, 210098, China
12.	MS 4044	Significance of Incorporating Chebfunction Coefficients for Improved Machine Fault Diagnosis	SachinSaj T K, Neethu Mohan, Sachin Kumar S, Soman K.P	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.
13.	MS 4047	Design and performance analysis of 6T SRAM cell on different CMOS technologies with stability characterization	Shikha Saun Hemant Kumar	Banasthali Vidyapith, Rajasthan, India
14.	MS 4058	An efficient Architecture for Barrel Distortion Correction in Surveillance camera images	A Sathya D Sasikala	Vivekanandha College of Engineering for Women, Namakkal, India.
15.	MS 4062	Power Quality improvement provide Digital Economy by the Smart Grid	Amam Hossain Bagdadee, Li Zhang	Hohai University, China
16.	MS 4069	Performance Analysis of Quality Measurement for Biomedical Images	Vipul C. Rajyaguru	Government Engineering College, Rajkot, Gujarat, India
		Performance Analysis of Quality Measurement for Biomedical Images	Rohit M. Thanki	Wadhwan City, Gujarat, India
17.	MS 4070	A Compact Planar Wideband Monopole Antenna with dipole like radiation characteristics for Wireless Applications	Prasanth Perli, Vamsi Rushi, Sai Shankar, Om Prakash Kumar, Tanweer Ali	Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal, India.
		A Compact Planar Wideband Monopole Antenna with dipole like radiation	Mohammad Saadh AW,	VIT University, Vellore,

S.No.	Paper ID	Title of the Paper	Name of the Authors	Affiliation
		characteristics for Wireless Applications		India.
18.	MS 4071	A State of the Art Review of Electric Vehicle to Grid (V2G) technology	Samir M Shariff,	Taibah University, Medinah, Saudi Arabia
		A State of the Art Review of Electric Vehicle to Grid (V2G) technology	Danish Iqbal, M Saad Alam, Furkan Ahmad	Aligarh Muslim University, Aligarh, India
19.	MS 4072	Low cost solution for 3D mapping of environment using 1D LIDAR for autonomous navigation	Rutuja Athavale, Harish Ram D.S, Binoy B Nair	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India
20.	MS 4075	An IoT Solution for Cattle Health Monitoring	Akhila Suresh, Sarath T V	Amrita School of Engineering, Coimbatore.
21.	MS 4076	Automated Melanoma Recognition in Dermoscopy Images via Very Deep Residual Networks	Prathiba M, Deepa Jose, Saranya R, Nandhinidevi	KCG College of Technology, Karapakkam, Chennai-600097, Tamilnadu, India
22.	MS 4079	Intelligent driving range predictor for green transport	Sravan Pai, Sindhu M R	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.
23.	MS 4083	Segregation of Plastic and Non-plastic Waste using Convolutional Neural Network	Kancharla Tarun, Sreelakshmi K Peeyush K P	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India – 641112
24.	MS 4084	Low Power Cubic Computation Unit Using Vedic Sutras	P Aatmica, V Ranjith, I Nimalsurya Ramesh S R	Amrita School of Engineering, Amrita Vishwa Vidyapeetham, India
25.	MS 4085	Performance Analysis of Antennas in Structural Health Monitoring	Pramod Kumar	Manipal Institute of Technology, Manipal-576104
26.	MS 4086	Sensor's Data Transmission over QAM Using LDPC Over MIMO Channel to enhance the Channel capacity: Performance analysis over RMSE and BER	Charanarur Panem, Rajendra S. Gad	Goa University, Taleigao, Goa, India
		Sensor's Data Transmission over QAM Using LDPC Over MIMO Channel to enhance the Channel capacity: Performance analysis over RMSE and BER	VinayaR.Gad	GVM's College Ponda, Goa,India
27.	MS 4087	Using blockchain technology for file synchronization	MD. Ibrahim Khan, Fahad Faisal,	Daffodil International University,4/2 Sobhanbag, Dhaka, Bangladesh
		Using blockchain technology for file synchronization	Sami Azam, Asif Karim, Bharanidharan Shanmugam,	Charles Darwin University, Ellengowan Drive, Casuarina, NT, Australia

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			Friso De Boer	
28.	MS 4088	Remote monitoring of BLDC motor using LabVIEW and zigbee	J K Vaishakh, V Vanitha	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India
29.	MS 4089	Forecasting rainfall using soft computing techniques – A case study using India rainfall data	Binoy B Nair, Silamparasu S, Mohnish R, Deepak T S Rahul M	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.
30.	MS 4091	Design and implementation of framework for higher education enrolment through ICT enabled application using JEE	VinayakHegde , RashmiNayak S, Charitha S	Amrita School of Arts and Sciences, Mysuru Amrita Vishwa Vidyapeetham, Mysuru Campus, Karnataka, India
31.	MS 4092	Channel aware reputation system with adaptive detection using AODV protocol during forward attack in wireless sensor network	R Sakthi Prabha	Sathyabama Institute of Science and Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai, Tamil Nadu- 600119
32.	MS 4095	Multilinking of Professional Analog Wireless Communication Networks.	Vivekanand K Joshi Sivaperumal Sampath	Vel Tech Rangarajan Dr. Sagunthal R&D Institute of Science and Technology, Avadi, Chennai, Tamilnadu 600062, India.
33.	MS 4097	An intelligent control strategy for vehicle-to-grid and grid-to-vehicle energy transfer	Vinayak Patil, Sindhu M R	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.
34.	MS 4098	Modelling and simulation of electric power steering system using permanent magnet synchronous motor	Rahul R Hiremath, T B Isha	Amrita School of Engineering, Coimbatore, Amrita Vishwa Vidyapeetham, India.
35.	MS 4099	Design of Manchester Carry Chain Adder using High speed Domino Logic	P Das, A L Bhalerao, A Mane, Angeline A V S K Bhaaskaran	VIT Chennai, India
36.	MS 5001	Frequency domain analysis for the classification of parkinson's disease patients	S Kamalraj, K N Rejith G K D Prasanna Venkatesan	Karpagam academy of higher Education, Coimbatore, India.
37.	MS 5002	Wide Gain Bidirectional Converters for Energy Storage System of Fuel Cell Vehicles	Sri Krishna SankalpGunturi, Sasi Kumar Makkena, Siva Sankar Pedapudi M. Sai Krishna Reddy	Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur - 522502, A.P India
38	MS 3081	Fabrication of Ag/AgCl electrode for detection of electric field in marine	Mohammed Shafeeq KK, Dr. G. Uma,	National Institute of Technology, Tiruchirappalli-

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		environment		620015
		Fabrication of Ag/AgCl electrode for detection of electric field in marine environment	Shiny Nair, Dr. T. Mukundan	DRDO-Naval Physical and Oceanographic Laboratory, Kochi-21
39	MS 4037	Antimicrobial activity of the novel metal oxide nanoparticles against selected human pathogenic bacteria	S. Gnanam	School of Basic Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai-600 117, Tamilnadu, India.
			R. Ashokkumar,	Kumaraguru College of Technology, Saravanampattay, Coimbatore 641006, Tamilnadu, India.
			K.SenthilKannan	Edayathangudy G S Pillay Arts and Science College, Nagapattinam 611002, Tamilnadu, India.
40.	MS 4077	Modelling and analysis of SU8/CB nanocomposite polymer flow sensor	Suraj Mohd. Zahid Ansari	PDPM-Indian Institute of Information Technology, Design and Manufacturing, Airport Road, Jabalpur, MP 482 005, India
41.	MS 4080	Nano scratch and Nanoindentation: An Approach to Understand the Tribological Behaviour of Max Phase Material Ti_2AlC	Jagtar Singh, M. F. Wani, Summera Banday, Chandra Shekhar, Gurtej Singh	National Institute of Technology, Hazratbal, Srinagar, J&K, India-190006
42.	MS 4096	Analysis of effect of core material on the performance of single phase transformer using FEM	Sarpreet Kaur Damanjeet Kaur	University Institute of Engineering and Technology, Panjab University, Chandigarh, India
43.	MS 5003	Design and simulation of piezoresistive polymer accelerometer	Gulshan Kumar Verma Mohd. Zahid Ansari	PDPM-Indian Institute of Information Technology, Design and Manufacturing, Airport Road, Jabalpur, MP 482 005, India

ICMSMT

Materials science and manufacturing process is one of the significant symbols of modern day's high-tech revolution. The technological developments in the materials science paves the road for advancements in materials science and manufacturing technology across the world. Materials are the key factor for the emerging industries of all kind. In order for new material to get the actual application, exquisite preparation and manufacturing must be processed. No doubt manufacturing is critical in every walk of life. With rapid development computer technology, communications technology and network technology, traditional manufacturing process has evolved to intelligent manufacturing which is more intelligent, more precision and more efficiency.

The scope of the International Conference on Materials Science and Manufacturing Technology (ICMSMT) is to provide a forum for researchers, scientists, academicians, scholars and practitioners around the world to present papers on recent developments in the broad fields of Materials Sciences and Manufacturing Technology. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Materials Science, Engineering and Manufacturing. Participants will have the opportunity to exchange their research findings and discuss theoretical and methodological perspectives in materials science and manufacturing technology. ICMSMT is an annual event and is conducted in the second week of April every year.

Call for Papers

ICMSMT invites full length original research contributions from science, engineering professionals from industries, R&D organisations, academic institutions, government departments and research scholars from across the world. Full length original research contributions and review articles not exceeding twelve pages as per the IOP single column format shall be submitted. Extra page charge is applicable for the manuscripts with more than twelve pages. The manuscript template shall be found in the downloads section. The manuscript should contribute original research ideas, developmental ideas, analysis, findings, results, etc. The manuscript should not have been published in any journals/ magazines or conference proceedings and not under review in any of them. Further the manuscript should contain the name of the corresponding author with e-mail id and affiliation of all authors. Soft copy of the full length manuscripts (in .doc and .pdf) shall be submitted to ICMSMT office as per the submission guidelines.

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Research manuscripts and proposals are invited in the following topics (but not limited to)

Advanced materials	Aerodynamics	Automation, control and information technology
Biomaterials	Manufacturing systems and simulation	Magnetic materials and smart materials for specific applications
Composite materials	Machine design & Machinery dynamics	MEMS and structural control
Polymer science	Nanotechnology	Active materials in MEMS applications
Renewable materials	Mechanical dynamics and vibration	Materials property and characterisation
Functional materials	Mechanical strength & Design	Thin film technology
Nano materials	Casting technology and equipment	Virtual instrumentation in automation
Building materials	Welding technology and equipment	Machine vision system
Chemical materials	Plastic processing technology	Industrial robots and automation
3D materials	Cellular manufacturing	Controllers and distributed control system
Cryogenic materials	Advanced manufacturing processes	Embedded system
Energy storage and conversion materials	Laser processing & Automation	Sensors for automation
Smart / Intelligent materials / Intelligent systems	Industrial automation and process control	Vibration engineering
Optical / Electronic / Magnetic materials	Intelligent controllers	

Peer review policy

Each submitted manuscript will receive a unique paper id. The manuscripts will be initially screened to check for the conference scope and originality. All the submitted manuscripts will be sent for technical peer review process and the corresponding author will be notified the outcome of the review process. ICMSMT adopts double blind review process. If reviewers recommended for further improvements in the manuscript, the manuscript will be sent back to the corresponding author and the revised version of the manuscript shall be submitted within fifteen days on the date of notification. The final decision on the manuscript will be announced after the third round of evaluation by the technical program committee.

Publications

The registered and presented papers of the ICMSMT will be published into the book of conference proceedings and the hard copy of the book of proceedings will be given to the participants during the conference. All the accepted and registered papers of ICMSMT will be published in the IOP: Materials Science and Engineering (a conference proceedings journal) which is indexed in CPCI – Web of Science (Thomson Reuters), SCOPUS, Inspec, International Nuclear Information System (INIS), NASA – ADS, Chemical Abstracts, Polymer Library, etc.

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