CENDTS 2024

PROGRAM SCHEDULE

29th Aug 2024				
09:00-09:30	Inauguration Ceremony Exhibition Inauguration			
09:30-10:30				
10:30-11:30	Registration & Tea Break			
Session Chair: Dr. Sarmishtha Palit Sagar				
11:30-12:15	J N Tata Visionary Lecture : New paradigms in Phased Array Ultrasound Technique	Prof Krishnan Balasubramanium, IITM		
12:15-13:00	Plenary Talk: How the 3 D's can enhance the 3 P's Digitization, Digitalization and Digital Transformation (3D's); Process Control, Product Quality Assurance and Predictive Maintenance (3P's)	Dr Shyamsunder Mandayam		
13:00-14:00	Lunch Break			
	Technical Session I (14:00 – 15:30): Sensors and AI for NDE 8 Session Chair: Mr. N Rajesh Kumar	& SHM		
14:00-14:30	Keynote Lecture I: Role of Distributed Fiber Sensors for 3P in Industrial Environments	Prof Balaji Srinivasan, IITM		
14:30-14:45	Application of 1D-CNN in Ultrasonic Testing for Grain Size Prediction	Anuj Yadav, IIT, KGP		
14:45-15:00	AI-Driven IIoT Sensors for Predictive Maintenance in Steel Rolling Mills	Prashant Verma; Nano Precise Sci Corp.		
15:00-15:15	Innovative Monitoring System of Steel Cord Belt for Conveyor System	Kaushal Kr Singh, TATA Steel		
15:15-15:30	Applications of Wireless Sensors for Real-Time Structural Health Monitoring through AI/ML methods	Abhiram Chavali, Consulting Engineer Measurement Solutions Pvt. Ltd.		
15:30-16:00	Tea Break			

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Aug 29 – 30, 2024 JAMSHEDPUR

PROGRAM SCHEDULE

29th Aug 2024 Technical Session II (16:00 – 17:30): Product Quality Assurance Session Chair: Mr. J C Pandey				
16:30-16:45	Sensor for real time damage assessment of engineering components exposed to high temperature (>500 deg C)	Chinmoy Bera, CSIR- NML		
16:45-17:00	Asset Reliability improvement by Ultrasound Technology using Industry 4.0	Manohar Chidurala, UE Systems		
17:00-17:15	Real-time Measurement and Control of Zinc Coating Weight in steel Wires in the Galvanised line	Nitish Kumar, CSIR- NML		
17:15-17:30	Enhancing Reliability, Safety, and Energy Efficiency Through Improved Condition Monitoring Techniques in Thermography and Ultrasonic-based gas leak detection, at AM/NS India Plant	T A Gurusamy, Arcelor Mittal Nippon Steel India		
19:00 onwards	Cultural Program followed by Dinner			

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30th Aug 2024 Technical Session III (09:30-11:00): Signal & Image Processing in NDE Session Chair: Mr. B Ramprasad				
10:00-10:30	Keynote Lecture IV: Role of Digital Signal and Image Processing for Process Control, Product Quality Assurance and Predictive Maintenance (3P) in today's competitive era	Dr Debi Prasad Das, IMMT		
10:30-10:45	Estimation of Cathode Position in a Transferred Arc Plasma Using Electrical and Optical Signal with Kalman Filter Driven Artificial Neural Network	Nilotpal Kapri, IMMT		
10:45-11:00	Intelligent Iron Ore Analyzer using Microwave- assisted Thermal Imaging	Suman Tewary, CSIR- NML		
11:00-11:30	Tea Break			

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PROGRAM SCHEDULE

	30th Aug 2024			
	11:30-12:30: PANEL DISCUSSION Moderator: Dr. Shyamsunder Mandayam			
12:30-13:45	Lunch Break			
Technical Session IV (13:45 – 14:45): Ultrasonic NDE Session Chair: Prof. Siddhartha Panda				
13:45-14:00	Testing of an impacted CFRP sample with various NDT methods	Manish Sharma, NIT Rourkela		
14:00-14:15	Quality evaluation of Al-Al friction stir weld using advanced ultrasonic techniques	Arnab Pattanayak, CSIR-NML		
14:15-14:30	In line Testing with Multichannel UT : Single Element is not Dead with the advent of the Phased Array	Sandeep Murjani, Advanced OEM Solutions		
14:30-14:45	Transforming Air Pollution Monitoring: Precision Analysis and Source Identification	Kunal Soni, HORIBA India Pvt. Ltd.		
15:00-16:00	Valedictory Session			
16:00-17:00	High Tea			