



ICMIAM 2020

International Conference on Maintenance and Intelligent Asset Management
January 17-18, 2020

Paper Presentation Schedule

Day -2: 17th January 2020

Computer Science Engineering Theme (CSE)

Day-2, Session-1

Chair: Dr. Gopinath Chattopadhyay

Co-Chair: Dr. Gour Karmakar

Date: 17 th January 2020		Time: 2:00 PM - 3:00 PM		Venue: Class Room-1	
Code	TITLE	Presenter Name	Time		
CSE001	The impact of industry 4.0 on Millennials in South Africa. <i>N. Kishore, JHC Pretorius, G. Chattopadhyay</i>	N. Kishore	2:00PM – 2:15PM		
CSE005	An application of Euclidean distance matrix for generalized machine cell formation problems. <i>Manash Hazarika</i>	Manash Hazarika	2:15PM – 2:30PM		
CSE006	R-Programming Based Optimal Restaurant Prediction. <i>Neha Kashyap, R. Harikrishnan</i>	Neha Kashyap	2:30PM – 2:45PM		
CSE007	Application of Market – Basket analysis on healthcare. <i>Abhishek, Jammula Surya Kiran, Poornalatha G</i>	Abhishek	2:45PM – 3:00PM		



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Day - 2: 17th January 2020

Tribology Theme (TRB)

Day-2, Session-1

Chair: Dr. Ram Turaga

Co-Chair: Dr. Alok Verma

Date: 17 th January 2020		Time: 2:00 PM - 3:00 PM		Venue: Class Room-2	
Code	TITLE	Presenter Name	Time		
TRB002	Structure-property relationship of glass fabric / MWCNT / epoxy multilayered laminates. <i>B. Shivamurthy, S. Anandhan, K. Udaya Bhat</i>	B. Shivamurthy	2:00PM – 2:15PM		
TRB003	Review on structure material in the space environment. <i>H.C. Shomesh, Raghavendra Kamath C</i>	H.C. Shomesh	2:15PM – 2:30PM		
TRB004	Significant analysis of bearing element adjustments on static characteristic of multi-pad externally adjustable bearings through Taguchi method. <i>Ganesha A, Raghuvir Pai, Srikanth Rao D, S.M. Abdul Khader</i>	Ganesha A	2:30PM – 2:45PM		
TRB010	Finite element analysis for wear prediction at the head-stem taper junction with varying taper trunion radiuses of hip implants <i>Chethan. K.N, Ogulcan Guldeniz, Shyamasunder Bhat N, Mohammad Zuber, Satish Shenoy B</i>	Chethan. K.N	2:45PM – 3:00PM		



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Day - 2: 17th January 2020

Asset Management Theme (AMT)

Day-2, Session-1

Chair: Dr. Anne Gibbs

Co-Chair: Dr. Satya Shankar Sharma

Date: 17 th January 2020		Time: 2.00 PM–3.00PM		Venue: Class Room-3	
Code	TITLE	Presenter Name	Time		
AMT001	Yearly plant maintenance budget evaluation: A simulation approach. <i>Atul Kumar Srivastava, Girish Kumar, Piyush Gupta</i>	Atul Kumar Srivastava	2:00PM – 2:15PM		
AMT015	Predictive Maintenance Methodology in Sheet Metal Progressive Tooling: A Case Study. <i>Ashutosh Kolhatkar, Anand Pandey</i>	Ashutosh Kolhatkar/ Anand Pandey	2:15PM – 2:30PM		
AMT017	Impact of training and education pillar TPM on workmen performance: An implementation case in a ball bearing manufacturing unit. <i>Ashok Kumar Sharma, Shudhanshu Sharma</i>	Ashok Kumar Sharma	2:30PM – 2:45PM		
AMT005	Railway track system asset management – a case study on Indian Railway. <i>Sourath Ghosh, Debashis Sarkar, Susmita Sau, Subhash Chandra Panja</i>	Subhash Chandra Panja	2:45PM – 3:00PM		



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Day - 2: 17th January 2020

Asset Life Cycle Management Theme (ALC) + Water, Waste Management Theme (WAT)

Day-2, Session-1

Chair: Dr. Venkat Reddy

Co-Chair: Dr. Harpreet Kandra

Date: 17th January 2020

Time: 2.00 PM–3.00PM

Venue: Class Room-4

Code	TITLE	Presenter Name	Time
WAT001	Water Security and Scarcity: Challenges and Solutions. <i>Tony Miguel, Cruz Elisa Torrecillas Nuñez, Amar Singh, Andrés C. Ravelo, Héctor Manual Cárdenas Cota</i>	Tony Miguel / Cruz Elisa Torrecillas Nuñez/ Amar Singh	2:00PM – 2:15PM
WAT002	Correlating qualitative and quantitative impact indicators to prioritise integrated urban and peri-urban water management. <i>Cruz Elisa Torrecillas Nuñez, Tony Miguel, Amar Singh, Andrés C. Ravelo, Ana María Planchuelo</i>	Cruz Elisa Torrecillas Nuñez	2:15PM – 2:30PM
ALC001	On Reliability acceptance sampling plan for censored Weibull distributed products. <i>Shovan Chowdhury</i>	Shovan Chowdhury	2:30PM – 2:45PM
ALC011	A Low-Cost Data Acquisition using CAN Communication Protocol for Static and Dynamic Conditions for Automotive Application <i>Nithesh Naik, Mounik G S, Udit Rathee, Dasharathraj K Shetty, Balakrishna Maddodi, Rajesh Gopakumar, Vasco Gama Caldas Sampaio</i>	Mounik G S	2:45PM – 3:00PM

Tea Break

Time: 3:00 PM – 3:15 PM

Venue: Auditorium



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Day - 2: 17th January 2020

Computer Science Engineering Theme (CSE)

Day-2, Session-2

Chair: Dr. Syed Islam

Co-Chair: Mr. Amar Singh

Date: 17 th January 2020		Time: 3.15 PM–4.30 PM		Venue: Class Room-1	
Code	TITLE	Presenter Name	Time		
CSE008	AI Based Ship Control System for Indian Warships and Merchant Ships. <i>Alok Bhagwat, Pradnya Chitrao</i>	Alok Bhagwat	3:15PM – 3:30PM		
CSE009	A Distributed Framework for Discovering Associated Patterns from Sensor Data in Industry Applications. <i>Md Mamunur Rashid, Joarder Kamruzzaman, Sakib Shahriar Shafin and Saleh Wasimi</i>	Joarder Kamruzzaman	3:30PM – 3:45PM		
CSE010	An improved genetic algorithm for the machine-part cell formation problem. <i>Manash Hazarika</i>	Manash Hazarika	3:45PM – 4:00PM		
CSE014	Internet of Things for Asset Management: Data Analytics and Security <i>G. Karmakar, J. Kamruzzaman, S. Islam, G. Chattopadhyay and R. Pai</i>	G. Karmakar	4:00PM– 4:15PM		
CSE015	E-PRO: Euler Angle and Probabilistic model for face detection and recognition <i>Sandesh R, Manoj Kumar M V</i>	Sandesh R	4.15PM-4.30PM		



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Tribology Theme (TRB)

Day-2, Session-2

Chair: Dr. Nalinaksh S. Vyas

Co-Chair: Dr. Raghuvir Pai

Date: 17 th January 2020		Time: 3.15 PM–4.30 PM		Venue: Class Room-2	
Code	TITLE	Presenter Name	Time		
TRB005	Experimental investigation of Material Removal Rate in Wire-Electrical Discharge Machining of Silicon Particle Reinforced Al6061 composite: The Optimisation and Regression Modelling. <i>Deepak D, Akash G Talekar, Marcin Piekarski</i>	Akash G Talekar	3:15PM – 3:30PM		
TRB006	Statistical approach for surface roughness enhancement during abrasive water jet machining of Discontinuously Reinforced Caryota Urens Polyester Composites. <i>Raviraj Shetty, Augustine B.V. Barboza, Rajesh Nayak</i>	Rajesh Nayak	3:30PM – 3:45PM		
TRB007	Effect on wear property of Aluminium metal matrix composite reinforced with different Solid lubricants – A Review. <i>Siddesh Kumar N.M, Nama Venkata Rohith, Bindu Gutta, Satish V Kailas</i>	Siddesh Kumar N.M	3:45PM – 4:00PM		
TRB008	Design of Experiment based methodology to Assess the Effect of Terminalia chebula Ritz extract for Corrosion Inhibition of Aluminum in phosphoric acid. <i>P. R. Prabhu, Deepa Prabhu, Padmalatha Rao</i>	P. R. Prabhu	4:00PM– 4:15PM		
TRB009	Comparison of Distance Based Dimensionality Reduction Techniques for Effective Classification of Bearing Vibration Signals <i>Sushobhan Das, Vijay G. S.</i>	Sushobhan Das	4.15PM-4.30PM		



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Day - 2: 17th January 2020

Asset Management Theme (AMT) & Tribology Theme (TRB)

Day-2, Session-2

Chair: Dr. D. Srikanth Rao

Co-chair: Dr. Ashok Kumar Sharma

Date: 17 th January 2020		Time: 3.15 PM–4.30 PM		Venue: Class Room-3	
Code	TITLE	Presenter Name	Time		
AMT006	Automating the SAMP through an IMS Online: A Tool for inspiring change and collaboration. <i>Nazrul Islam, Julian Watts</i>	Nazrul Islam/ Julian Watts	3:15PM – 3:30PM		
AMT007	Evaluation of a behaviour-based safety (BBS) method for improving safety performance. <i>Manikandan H</i>	Manikandan H	3:30PM – 3:45PM		
AMT008	Innovative Technology Based Social Enterprises for Inclusive Sustainable Healthcare in India. <i>Pradnya Vishwas Chitrao, Pravin Kumar Bhojar, Rajiv Divekar</i>	Pradnya Vishwas Chitrao	3:45PM – 4:00PM		
AMT009	Value Stream Mapping in Total Productive Maintenance of a Meat Processing Plant in Australia. <i>Chundhoo, V., Chattopadhyay, G., Karmakar, K, Kahandawa, G</i>	Vickram Chundhoo	4:00PM– 4:15PM		
TRB011	Numerical analysis of a lemon bearing operating with non-Newtonian fluid and considering slip between the sliding surfaces <i>Amar Murthy Ambekar, Raghunandana. K.</i>	Amar Murthy Ambekar	4.15PM-4.30PM		



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Day - 2: 17th January 2020

Asset Life Cycle Management Theme (ALC) & Water + Waste Management

Theme (WAT)

Day-2, Session-2

Chair: Dr. John Hardwick

Co-chair: Dr. Bikas K Sinha

Date: 17 th January 2020		Time: 3.15 PM–4.30 PM		Venue: Class Room-4	
Code	TITLE	Presenter Name	Time		
WAT003	Water Audit of Chitkara University, Himachal Pradesh – A Zero Discharge Campus. <i>Varinder S Kanwar, Akhil Shetty</i>	Varinder S Kanwar	3:15PM – 3:30PM		
ALC004	Maintenance and Reliability improvement by Reliability analysis and its outcome implementation by optimising Preventive Maintenance intervals. <i>Md Omar Sharif, Gopinath Chattopadhyay</i>	Md Omar Sharif	3:30PM – 3:45PM		
ALC006	An expert system for life cycle assessment of casting process. <i>Karmjit Singh, Prince Pal Singh, Ibrahim Sultan, Gopinath Chattopadhyay</i>	Ibrahim Sultan	3:45PM – 4:00PM		
TRB001	Recent Advances in Carbon Based Polymer Composites for Effective Electromagnetic Interference (EMI) Shielding and Radiation Absorption: A Review. <i>Nithesh Naik, Aravind Karthik, Shivamurthy B, B H S Thimappa, Ritesh Bhat, Samuel Schumann, Vathsala Patil, Dasharathraj K Shetty</i>	Aravind Karthik	4:00PM– 4:15PM		
TRB013	Tribolayer effect on wear behavior of artificially aged AI6061 Hybrid Composites <i>Gowri Shankar, Pavan Hiremath, Gurumurthy, Sathyashankara Sharma, Achutha Kini, Manjunath Shettar</i>	Gowri Shankar	4.15PM-4.30PM		



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Day - 3: 18th January 2020

Asset Management Theme (AMT) & Asset Life Cycle Management Theme (ALC)

Day-3, Session-1

Chair: Dr. Bikas K Sinha

Co-Chair: Dr. H.K Misra

Date: 18th January 2020

Time: 3.00 PM–4.15 PM

Venue: Class Room-1

Code	TITLE	Presenter Name	Time
AMT003	Risk Based Decision-making in Management of Concrete Water Reservoir Assets. H.S. Richards, G. Chattopadhyay, H. Kandra, N. Islam	H S Richards/ G. Chattopadhyay/ H. Kandra/ N. Islam	3:00PM – 3:15PM
AMT016	Estimation of Parameters for Distribution of Timber Pole Failures Due to In-Ground Decay. <i>Anisur Rahman, Gopinath Chattopadhyay</i>	Anisur Rahman/ G Chattopadhyay	3:15PM – 3:30PM
AMT004	Studies on the impact of alternative modes of transport on the natural assets covering the environment and the public health in Australia: a literature study. <i>Peters. L. J. B, Chattopadhyay. G, Tuck. M. A</i>	Peters. L. J. B	3:30PM – 3:45PM
AMT018	Improvement in Reliability, Availability and Maintainability (RAM) using Reliability Centred Maintenance (RCM) in Liquefied Natural Gas (LNG) loading arms. <i>Erik Van den berg, Gopinath Chattopadhyay</i>	Erik Van den berg	3:45PM– 4:00PM
ALC005	Modelling uncertainty using neutrosophic sets for precise risk assessment of marine systems. <i>Sunay Pai, Rajesh Prabhu Gaonkar</i>	Sunay Pai/ Rajesh Prabhu Gaonkar	4.00PM-4.15PM



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Day - 3: 18th January 2020

Asset Management Theme (AMT) & Tribology Theme (TRB)

Day-3, Session-1

Chair: Dr. Ashis Kumar Chakraborty

Co-Chair: Dr. Min XIE

Date: 18 th January 2020		Time: 3.00 PM–4.15 PM	Venue: Class Room-2	
Code	TITLE	Presenter Name	Time	
AMT020	Development of RSM based Expert System tool for prediction of cutting force during machining Ti-6Al-4V under MQL. <i>C R Sanjeevkumar , M R Ravindra, Raviraj Shetty</i>	<i>Sanjeevkumar/ Ravindra/ Raviraj Shetty</i>	3:00PM – 3:15PM	
AMT021	Geotechnical Asset Management in Road Infrastructure under a Changing Climate. <i>Susanga Costa, Harpreet S. Kandra</i>	<i>Susanga Costa / Harpreet S. Kandra</i>	3:15PM – 3:30PM	
AMT011	Investigation on impact of supplier, customer and organization collaboration factors on the performance of New Product Development. <i>M Balasubramanian, S Murali, Malepati Vineeth Choudary</i>	<i>Malepati Vineeth Choudary</i>	3:30PM – 3:45PM	
AMT013	New approach on Design and Development of Mechanical Anti-lock Braking System (ABS) using Torque reduction principle. <i>Loganathan T G, Vinoth Kumar K, Jagadeesh G</i>	<i>Jagadeesh G</i>	3:45PM– 4:00PM	
TRB012	Thrust force and Torque generation during drilling of coconut coir fiber reinforced polymer composite laminates based on statistical approach. <i>N.Ananth Bhavish, Raviraj Shetty, B.Aadesh Shetty</i>	<i>Ananth Bhavish/ Raviraj Shetty/ Adesh Shetty</i>	4.00PM-4.15PM	