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ICCMEH-2024

International Conference on Computational Methods in Engineering and Health Sciences

December 16-17, 2024











	Program Schedule		
	Day-1: 16 th December 2024 Inauguration and Keynote sessions	Venue: Library Auditorium	
8:00 – 8:45 AM	Registration		
8:45 – 9:00 AM	Welcome		
9:00 – 9:30 AM	Keynote Address-1 Mr. Dave Daines Director & Past Chair of Board, Asset Management Council, Australia Chair: Dr. Raghuvir Pai	Topic: People Do Asset Management	
9:30 – 10:00 AM	Keynote Address -2 Dr. Suresh Sampath Head of Gas Turbine Systems Engineering and Operations Group, Centre for Propulsion and Thermal Power Engineering, Cranfield University, UK Chair: Dr. Satish Shenoy B	Topic: Gas Turbine Engine Fault Diagnostics using Digital Twin and Artificial Intelligence	
10:00 – 11:00 AM	Inauguration	Venue: Library Auditorium	
11:00 – 11:30 AM	Tea Break	Venue: Library Auditorium	
	Keynote Address	Venue: Academic Block-2, Sir MV Seminar Hall	
11:30 AM – 12:00 NOON	Keynote Address - 3 Suman Gowda N.C Application Manager - Additive Phillips Machine Tools India Pvt Ltd. Chair: Prof. Dayanand Pai	Topic : Advances in Composites manufacturing and Medical grade materials through Additive (3D Printing)	
12:00 NOON – 12.30 PM	Keynote Address - 4 Dr. Ramesh Subramaniam Professor, Department of Physics, Faculty of Science, Universiti Malaya, Kuala Lumpur, Malaysia Chair: Prof. Suresh Sampath	Topic: Cutting-Edge Materials in Energy Storage and Clean Energy Technologies.	
12:30 – 1:00 PM	Keynote Address - 5 Dr. Lung-Jieh Yang Counselor and Director, Science and Technology Division, Taipei Economic and Cultural Center (TECC), New Delhi, India Chair: Prof. Masaaki Tamagawa	Topic: Scaling laws on flapping wings and Indo-Taiwan research opportunities	

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1:00 – 2:00 PM	Lunch break		Venue: KEF Auditorium	
	Parallel Technical Sessions	S		
2.00 – 4.30 PM	Parallel Technical Day-1, Session-1, Track 1: Chair Person Dr. Abhilash Pai & Dr. Navys	: Health ! ns:	Health Sciences as: Venue: Academic Block -2, Hall No 03	
Paper Code	Title			
2	Ashadeepa A and Ravi Kumar V. Progressive Development of AI-Enhanced Models for Lung Cancer Stage Classification			
7	Animita Das, Sawan Shetty and Chethan Kn. Impact of Electrospinning Technology on Advancing Biomedical Applications: Challenges and Future Directions			
43	Vineeth N, Gowrava Shenoy B, Shah Mohammad Abdul Khader, Raghuvir Pai B, Ravindra Prabhu U and Masaaki Tamagawa. Study of Haemodynamics In Human Renal Artery Branch Using CFD			
	TEA BREAK			
18	Nishant Nikam, Dr. Chethan K N, Dr. Satish Shenoy B and Dr. Laxmikant G Keni. Evaluating Circular and Rectangular Stem Designs for Total Hip Arthroplasty Using FEA			
45	Jammi Moksha Tej and Majji Venkata Satya Sai Roshan. NephroVision: A Hybrid CNN Approach integrating with Max pooling and Segmentation to enhance kidney stone detection.			
2.00 – 4.30 PM	(hair Persons:		Venue: Academic Block -2, Hall No 04	
Paper Code	Title			
20	Harish Bhat N, Satish Shenoy B, Shashi Kumar, Dattathreya Gujjar and D V Manjunatha. Adaptive Reactive Position Control of Quadcopters			
48	Utkarsh Bhalwankar and Narendra Deore. Mod Machine Learning	leling Ur	known Dynamics	Using Scientific
14	Md Imran Alam, Haneef Khan, Mohammad Rafeek Khan, Sarfaraz Ahmed Wahaj, Malik Zaib Alam and Salman Agha Haider. Data-Driven Diabetes Diagnosis: Comparing Supervised Learning Models for Early Detection			
	TEA BREAK			
39	Uma Jothi and Arunasree PV. Enhancing the Performance of Proof of Work Consensus Mechanism for Sustainable Blockchain-A Systematic Review			
50	Suhan K and Dolfred Vijay Fernandes. Effect of cathode shape on the performance of an Electrohydrodynamic pump with plate and rod electrodes			
6:30 PM	Travel to Beach by Bus	Acaden	nic Block – 1 (Pick	a-up Location)

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7:00 PM Onwards	Conference Dinner MAHE Beach House, Kadike, Malpe			
Day-2: 17 th December 2024				
8:30 - 9:15 AM	Welcome			
9.15 – 10.00 AM	POSTER PRESENTATIONS Day-2, Session-1 Chair Persons: Dr. Shah Md. Abdul Khadar & Dr. Chandrakant Kini	Venue: Academic Block-2, Sir MV Seminar Hall		
PO-1	Kandarp Narendra Talati, Conceptualizing data science applications for one toolkit for food safety in raw and processed milk	health research		
PO-2	Divya D Shetty, Next generation thermal management for sustainable electric vehicle battery performance			
PO-3	Deepak Adiga, Hydrogen price, supply and demand: A system dynamics perspective on market evolution			
10.00 AM-12.30 PM	Parallel Technical Sessions: Day-2, Session-1, Track 1: Health Sciences Chair Persons: Dr. Ramesh Subramaniam & Dr. Anoop Kanjirakat Baby	Venue: Academic Block-2, Sir MV Seminar Hall		
Paper Code	Title			
17	Yoshiki Yanagita, Abhilash H.N., S.M. Abdul Khader, Prakashini K, V.R.K. Rao, Ganesh Kamath S., Raghuvir Pai and Masaaki Tamagawa. Effect of Various Geometrical Properties of Carotid Artery on the Flow by Computational Fluid Dynamics (ONLINE PRESENTATION)			
36	Rintaro Obana and Masaaki Tamagawa. Effects of Neutrophil's Pseudopods Generation on the Propulsion Mechanism (ONLINE PRESENTATION)			
54	Shahistha Parveen Dasnadi, Satish Shenoy B, Rohan Mascarenhas and Kamath Apoorva Shrinivasa. Three- Dimensional Finite Element Analysis of force and stress associated with Mid Facial Skeletal Expander (ONLINE PRESENTATION)			
30	Izzat Najmi Mohd Yaacob, Nureen Adrieanna, Kamarul Arifin Ahmad, Osmera Ismail, Norafizah Salleh, Suraya Shahedi, Fikri Rasih and Norkhairunnisa Mazlan. Performance analysis of KNO3/SB based solid rocket propellant incorporation of graphene and sulphur as burn rate modifier using RSM approach. (ONLINE PRESENTATION)			

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10.00 AM–12.30 PM	Parallel Technical Sessions: Day-2, Session-1, Track 2: Materials Chair Persons: Suman Gowda N.C. & Dr. Laxmikant G. Kini	Venue: Academic Block -2, Hall No 03	
Paper Code	Title		
19	Abhijit Kudva, Mahesha G T and Dayananda Pai. Effect of alkali treatment on the properties of Bamboo fibers		
21	Kallesh V D, Suhas Y Nayak and Chandrakant R Kini. Review of UV Radiation effects on composite materials		
35	Rohit Nandakumar Shenoy, Suhas Yeshwant Nayak, Chandrakant R Kini and B Satish Shenoy. A Review on Post-Processing using Annealing of Material Extruded ABS Polymer for Improved Mechanical Properties		
	TEA BREAK		
38	Mirza Faizaan, Satish B. Shenoy, Chandrakant R. Kini and Claudia Creighton. Impact of Lattice Geometry on Compressive Strength: A Finite Element Analysis		
47	Jaideep J P, Suhas Yeshwant Nayak, B Satish Shenoy and Anand Pai. Review on Hybrid/Natural fiber-based Fiber Metal Laminates for Impact Applications		
02.00 – 04.00 PM	Parallel Technical Sessions: Day-2, Session-2, Track 1: Aerodynamics & CFD Chair Persons: Dr. Dolfred Vijay Fernandes & Dr. Krishna Prakasha	Venue: Academic Block -2, Hall No 03	
Paper Code	Title		
44	Prathmesh Verekar, Satish Shenoy B., Hamid Yusoff, Irfan Anjum B. Magami Magami, Sarfaraz Kamangar and Mohammad Zuber. Numerical analysis of tandem wing arrangement of dragonfly-inspired wings for forward flight		
40	Gautham Amin, Pramod Salunkhe and Chandrakant Kini. Stall Margin Enhancement of an Axial Flow Rotor using the Tip Injection		
42	Sudheer P N, Chandrakantha Bekal, Manjunath Shetty and Satish Shenoy. Computational Study of Droplets in T-junction microfluidics with different Multiphase Models		
	TEA BREAK		
52	Shruti G, Pramod B Salunkhe and B Satish Shenoy. Numerical studies on a Management System	a Battery Thermal	

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24	Isha Mirasdar, Sanjay N. Havaldar and Dhruv A turbine blade aerodynamics: A Review	Aher. The effect of addition of	winglets on Wind
02.00 – 04.00 PM	Parallel Technical Ses Day-2, Session-2, Track 2: Chair Persons: Dr. Anand Pai & Dr. Manju	Materials	Venue: Academic Block-2, Hall No 04
Paper Code	Title		
53	Gowrish Nagvekar, Anand Pai, Suhas Yeshwant Nayak and B Satish Shenoy. Optimizing Fiber Metal Laminates: A Review of Materials, Processing, and Properties for enhanced mechanical properties		
37	Mr. Dheeraj Poojary, Dr. Satish Shenoy B, Dr. Chethan K N and Dr. Anand Pai. 3D printing technologies for healthcare: stereolithography as the superior method for biomedical applications		
51	Ananth Mallya, Suhas Nayak, Satish Shenoy and Binu K G. Improving General Mechanical Attributes of Polymer Composites through Sustainable Approach: A Short Review		
	TEA BREAK		
		V C2 M V2	C!II-II
4:00 – 5:00 PM	Valedictory Function	Venue: Sir M Visvesvaraya Academic Block	,

Please Note:

Registration will be open from 8 to 11 AM on both days.

All presentations will be of 15 mins. duration followed by 5 mins. Q&A.