

Tentative Time table for 8th ICCMS 2022

Date	S.no.	Time slot	Venue	Reference ID	Name	Title
09-12-22		8:00 - 9:00	Carbon	Breakfast		
		9:00	VCR 105D	INAUGURAL FUNCTION		
		9:40	VCR 105D	Plenary Talk 1	Prof. J. N. Reddy	A Dual Mesh Control Domain Method: A Marriage of the Finite Element and Finite Volume Methods
		10:20	VCR 105D	Plenary Talk 2	Prof. Arun Srinivasa	GraFEA: A graph based nonlocal approach to the fracture of quasibrittle materials including concrete
		11:00	Carbon	Tea Break		
		11:30	VCR 105D	Plenary Talk 3	Prof. Srikanth Vedantam	Constitutively informed particle dynamics: A new paradigm for discrete particle models
		12:10	VCR 105D	Plenary Talk 4	Prof. Debasish Roy	A gradient theory of plasticity inspired by Riemannian geometry
		13:00	Carbon	Lunch Break		
		14:30		Keynote Talk 1	Dr. Eldho T I	Meshfree Methods and its applications in Fluid Flow Problems.
	1	15:00	L02	ICCMS21_1615778971	Mohammed Shakir	Artificial Neural Network Based Frequency Predictions of FG-GPL Reinforced Porous Plates
	2	15:15		ICCMS21_1616234853	Navaneeth N	Active subspace assisted reliability analysis of high dimensional systems
	3	15:30		ICCMS21_1669718279	Vipul Jain	Study on the development of Goss texture in cold rolled grain oriented steel: Role of sheet thickness
	4	15:45		ICCMS21_1668790796	Adarsh Jain	Effect of initial stress, rotation and micropolarity on the reflection of waves from the fiber-reinforced thermoelastic half-space
		14:30		Keynote Talk 2	Prof. Amirtham Rajagopal	Rate sensitive damage model for concrete under Dynamic loads
	5	15:00	L03	ICCMS21_1617110902	Shivnag Sharma	A Diffused Interface Non-local Crystal Plasticity Model to Capture Hall-Petch Effect in Polycrystals
	6	15:15		ICCMS21_1617178495	S. Mustafa Kazim	A homogenized Crystal Plasticity model for lamellar microstructures
	7	15:30		ICCMS21_1617196543	Dibya Jyoti Basu	RLA Study of RCC T Beam under Cyclic Load
	8	15:45		ICCMS21_1617340293	Salman Khan	An adaptive phase field framework to investigate fracture propagation in layered subsurface media.
		14:30		Keynote Talk 3	Dr. S. Pradyumna	Analysis of variable stiffness auxetic sandwich structures
	9	15:00	L04	ICCMS21_1618025396	Ajay Kumar	Numerical modeling of tensile and compressive behavior of mild steel at high strain rate through SHPB in Ls-Dyna
	10	15:15		ICCMS21_1618312415	Shalvi Singh	Polygonal Finite Element Method for Displacement based Elasto-Plastic Analysis
	11	15:30		ICCMS21_1618315413	Nazim Khan	Thermomechanical Homogenization of Integrated Thermal Protection System for Reusable Launch Vehicles
	12	15:45		ICCMS21_1655989044	Dipjyoti Nath	Application of Machine Learning in Efficient Stress Recovery in Finite Element Analysis
		16:00 - 16:30	Carbon	Tea Break		
	13	16:30	L02	ICCMS21_1624421234	Ramya Niranjan	Numerical investigation of a large floating offshore wind turbine response under extreme and accidental loads
	14	16:45		ICCMS21_1655296645	Romi Dhakad	Calibration of Constitutive Models for Elastomers: A Case Study of Natural Rubber
	15	17:00		ICCMS21_1619507434	Kshlitz	Influence of inclusion volume fraction, shape, distribution, and orientation on the mechanical behavior of composites
	16	17:15		ICCMS21_1625891792	Vikram Singh	Response of Shear Wall to Material and Geometric Nonlinearity
	17	17:30	L03	ICCMS21_1630565259	Sanjay Kumar Pandey	Numerical Simulation of Effect of Initial Crack Size of Fracture Specimens on J-R Curve for Austenitic Grade Stainless Steel SS316LN
	18	17:45		ICCMS21_1635421689	Ayyappan U	A diffused material interface based analytical method for elastic analysis of composites with in-plane inhomogeneity
19	16:30	ICCMS21_1619765191		Vadraj Hemadri	Comparing different Tersoff Brenner type potentials for mechanics of graphene and CNTs	
20	16:45	ICCMS21_1635422115		Akash Kumar Behera	A thermodynamically consistent phase-field model for electro-mechanical fracture	
21	17:00	L04	ICCMS21_1653285199	Ritika Singh	Transient response of collinear Griffith cracks in a functionally graded strip bonded between dissimilar elastic strips under shear impact loading	
22	17:15		ICCMS21_1653916850	Sreejith K	Effect of Sweep Angle on Dynamics of MCP Blade during Bollard-pull ship maneuvering	
23	17:30		ICCMS21_1667815256	Shilpa Deshpande	Evaluation for Face Stability of TBM Driven Mega Tunnel under Various Rock Strength Pa-rameters	
24	17:45		ICCMS21_1654060359	Vani Jagriti	Numerical Simulation of Explosive Storage Underground Structure Subjected to Blast	
25	16:30	L02	ICCMS21_165598930	Dipjyoti Nath	Efficient Stiffness Matrix in Finite Element Method using Deep Learning for Linear Elasticity	
26	16:45		ICCMS21_1654324773	Vipin Chandra	A Two-Scale Particle Based Model for Hot Isostatic Pressing (HIP)	
27	17:00		ICCMS21_1655185414	Aritri Roy	Numerical Estimation of Elastic Constants of Hydroxyapatite at Finite Temperatures: A Comparison of Different Force Fields	
28	17:15		ICCMS21_1655222569	Akash Yadav	Structural health monitoring of steel truss bridges subjected to environmental variability	
29	17:30	L03	ICCMS21_1655288666	Baban Kumar	A Comparative Study of Beam-Column Connections for Cold-Formed Steel Moment-Resisting Frames	
30	17:45		ICCMS21_1623161098	Gyanesh Patnaik	Performance of carbon-fiber reinforced polymer plates against impact loading	
		8:00 - 9:00	Carbon	Breakfast		
		9:00	VCR 105D	Plenary Talk 5	Prof. Perumal Nithiarasu	Physics informed neural networks (PINNS) for problems with discontinuous boundary conditions
		9:40	VCR 105D	Plenary Talk 6	Prof. Gangadhar Prusty	Flowable and functionalised fibre reinforced polymer biocomposites: From design to manufacturing to implementation
		10:20	VCR 105D	Plenary Talk 7	Prof. S. Gopalakrishnan	Wood pecker beak inspired blast mitigation strategies for composites and sandwich structures
		11:00	Carbon	Tea Break		
32	11:30	L02	ICCMS21_1656173955	Surentran M	A Quadtree based strain smoothed finite element method for cohesive interfaces	
33	11:45		ICCMS21_1615386028	Kedar Suresh Pakhare	On effects of the fringing field on static pull-in instability parameters of electrostatically actuated thick Timoshenko microbeams	
34	12:00		ICCMS21_1655190469	Kirpa Hirom	Study on specialised non-uniform inclined plates in an industrial wastewater sedimentation tank: A CFD study	
35	12:15		ICCMS21_1655269660	Neha Duhane	Simulation of a dislocation near semiconductor bi-material interface with misfit strain	
36	12:30	L03	ICCMS21_1655269859	Anjali Jha	Numerical Study of the Hydride Embrittlement in Zirconium Alloy using XFEM	
37	12:45		ICCMS21_1616926759	Kedar Suresh Pakhare	On the influence of the van der Waals force on the static pull-in instability of electrostatically actuated Timoshenko nanobeams	
38	11:30		ICCMS21_1657781248	Chapparam Sai Bharath	Estimation of shrinkage strain considering the effect of reinforcing steel for a thick RCC vault of a nuclear structure	
39	11:45		ICCMS21_1655724815	Sumit Kumar Das	Effects of the varying-order based NURBS discretization strategies on the solution of two-body large deformation contact problems	
40	12:00	L04	ICCMS21_1656138150	Anshuman Rajput	Numerical simulation of mixed mode fracture in rock joints	
41	12:15		ICCMS21_1656167230	Jaynandan Kumar	Comparison of Energy-based and Stress-based Criteria to Predict the Failure of Calcified Aneurysm	
42	12:30		ICCMS21_1657880757	Aurojyoti Prusty	Second-order phase-field modeling of fracture in Hyperelastic material using Natural Neighbor Galerkin Method.	
43	12:45		ICCMS21_1657892813	Chandan Pradhan	Dynamics of 3D Slender Blocks: A Mathematical Model	
44	11:30	L02	ICCMS21_1657817514	Pranesh Roy	Study of wave propagation in polymers in the presence of local elastic instability and rupture using peridynamics	
45	11:45		ICCMS21_1658678144	Arjun Sreedhar S	Three dimensional effects near a crack tip under mode I loading in a textured magnesium alloy	
46	12:00		ICCMS21_1658722273	Tinku Kumar Mahato	Indentation behavior of shape memory alloy thin films	
47	12:15		ICCMS21_1661419096	Mythri	Intracellular dynamics of human cardiac ventricular myocyte: ORd model	
48	12:30		ICCMS21_1661859530	KRISHNENDU SIVADAS	Nonlinear free vibration response of functionally graded nanobeams under hydrothermal environment based on nonlocal strain gradient theory with thickness effect	

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49	12:45		ICCMS21_1661860664	Aninda Pal	Vibroacoustics Analysis of Plates with Bioinspired Surface Modifications
50	11:30	L14	ICCMS21_1635444437	Mohammad Masjur Rahaman	Julia implementation of a phase-field model for studying the effect of interlocking angle on the mechanical behavior of geometrically interlocked composites
51	11:45		ICCMS21_1655269790	Tanmay Das	A deep learning based approach for damage detection of concrete structures
52	12:00		ICCMS21_1668279943	Chandan Pandey	Nanoscale effect in energy performance of a vibration-based energy harvester with genera boundary configurations
53	12:15		ICCMS21_1654862713	Manjur Alam	Thermo-Electro-Mechanical Post-Buckling Behavior of Functionally Graded, Nonlocal-Strain Gradient, Piezoelectric Cylindrical Shells
54	12:30		ICCMS21_1669871654	Prof. Sudib Kumar Mishra	Postcritical Instabilities in Nano-Arches
55	12:45		ICCMS21_1655303000	Mahendra Kumar Pal	Modeling thermal induced cracking in brittle materials
	13:00	Carbon	Lunch Break		
	14:30		Invited Talk 1		
	14:30	L02	ICCMS21_1662033574	Dr. Puneet Patra	Sequential Multiscale Modeling in Solid Mechanics
56	14:50		ICCMS21_1664300137	Anna Mariya Shajan	Hygrothermal effects on vibration response of porous FG nanobeams using nonlocal strain gradient theory considering thickness effect
57	15:05			Mohd Asif	Numerical prediction of ballistic performance of thin concrete plate
58	15:20			Mohammad Mohsin Khan	High strain rate on concrete using split Hopkinson pressure bar
59	15:35			KAILASH KUMAR	Numerical Study of Shape and Density Effect on Semi-Infinite Metallic Target under Hypervelocity Impact
60	14:30	L03	ICCMS21_1661876773	Suprateek Roy	A volume-to-volume interaction-based FE model for large deformation planar adhesive contacts
61	14:45		ICCMS21_1664736419	KINGSHUK MUKHERJEE	Non-Destructive Test methods for fresh and hardened properties of 3D-printed concrete: A Brief Review
62	15:00			SANJAY SINGH TOMAR	A Micromechanical Study to Investigate the Elasto-Plastic Behaviour of Carbon Fibre Reinforced Composites
63	15:15			Revanth Dugalam	PAVEMENT AND ROAD HEALTH MONITORING USING RANDOM FOREST TECHNIQUE'
64	15:30			Rushikesh Vijaykumar Bandal	A Comprehensive Review on Progressive Collapse and Structural Robustness of Reinforced Concrete Bridges
65	15:45		Umang Pulkit	Theoretical model for assessing the spatiotemporal temperature inside a building compartment	
66	14:30	L04	ICCMS21_1663225669	N Rino Nelson	Effect of tool profile and process parameters on FSW of Al-Mg plates
67	14:45			Vasudev Sengar	Isogeometric HSDT approach for vibration behaviour of laminated composite plates in thermal environment'
68	15:00			Abhijeet Sangapurkar	Investigation of Tunnel Behavior through Parametric Study
69	15:15			Pasupuleti Naga Mohan	A response-spectra based intensity measure to account for varying dominant periods in seismic response of structural systems
70	15:30			Anand Pratap Singh	Modeling of Magneto Rheological damper using Bingham Model
71	15:45		ICCMS21_1668059734	Shubham Saurabh	Mechanical Metamaterials design by Topology Optimization
	16:00 -16:30	Carbon	Tea Break		
	20:00 -21:30	Carbon	Executive Dinner		

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	8:00 - 9:00	Carbon	Breakfast			
	9:00	VCR 105D	Plenary Talk 8	Prof. Ramesh Talreja	Failure Analysis of Composite Materials with Manufacturing Defects	
	9:40	VCR 105D	Plenary Talk 9	Prob. Shinobu Yoshimura	Multiphysics and Multiscale Simulation of Coal Gasification Plant on Fugaku	
	10:20	VCR 105D	Plenary Talk 10	Prof. Sanjay Mittal	Sports Aerodynamics: Cricket Ball and Badminton Shuttle-Cock	
	11:00	Carbon	Tea Break			
	11:30	VCR 105D	Plenary Talk 11	Prof. Jeng -Tzong Chen	On the double degeneracy of BIEM/BEM	
	12:10	VCR 105D	Plenary Talk 12	Prof. Narasimhan Ramarathinam	Finite Element Analysis of Indentation Mechanics of Shape Memory Alloys	
	13:00	Carbon	Lunch Break			
	14:30		Keynote Talk 4	Prof. Arindam Gan Chowdhury	Hurricane Engineering Research and Education using the Wall of Wind Experimental Facility.	
72	15:00	L02	ICCMS21_1662442817	Arya Prakash Padhi	An Efficient Multigrid Conjugate Gradient based Solution for Structural Topology Optimization	
73	15:15		ICCMS21_1668066557	Pranjali Saxena	GCFEM using generalized fitting of boundary curves	
74	15:30		ICCMS21_1668789811	Dipendu Pramanik	Analysis of torsional vibration in a fractured poroelastic half-space coated with metal foam and sliding interfaces	
75	15:45		ICCMS21_1668954291	Rahul A. Gujar	Computational and Experimental Analysis of Femur to Investigates the Effect of Different Bone Inclinations on Fracture Risk under Compressive Static Load	
	14:30		Keynote Talk 5	Dr. Biswanath Banerjee	Eigenstrain and Residual Stress Identification: A Mixed Variational Approach	
76	15:00	L03	ICCMS21_1668357397	MAYANK AHIRWAR	Non Linear rotor dynamics for micro rotating systems	
77	15:15			J.Prawin	Rolling element bearing fault identification using vibration data	
78	15:30			Afsal	EFG meshless method based on higher order displacement model for the static analysis of functionally graded plates	
79	15:45			Manasa Bhat	Study of Rayleigh waves in a layered porous semi-infinite medium with non-local elasticity and micropolar effect	
	14:30		Keynote Talk 6	Prof. Debraj Ghosh	The role of machine learning in uncertainty quantification	
80	15:00	L04	ICCMS21_1669295392	Yenike Sharath Chandra Mouli	A new hydrostatic stress-dependent yield criteria with coupled growth of inelasticity and damage in polymer matrix materials	
81	15:15			Somya Ranjan Patro	Bandgap behavior of locally resonant beams	
82	15:30			Sourav Kumar	Homogenization of biological materials using hybrid finite elements	
83	15:45			Piyush Agrawal	Analysis of functionally graded material using hybrid finite element formulation	
	16:00 -16:30	Carbon	Tea Break			
84	16:30	L02	ICCMS21_1668086264	Dr. Srihar Dodla	Finite element simulations of deformation and material removal of polycrystalline IN718	
85	16:45			Mahesh Dhanajirao Gaikwad	Numerical Investigation of a Concrete Stress Block at Different Stages of Fire	
86	17:00			Piyush Kumar	Constitutive modeling and evolution of texture during Hot deformation of FeCoNiCrAlTi high entropy alloy	
87	17:15			Arman Mohaddin Nadaf	Mitigation of flow boiling instabilities using diverging channels	
88	17:30		ICCMS21_1618473703	Sadananda Megeri	The Effect of Core Metal Layer on the Behavior of CARALL Under Low Velocity Impact Loading	
89	17:45		ICCMS21_1657773982	Mukul Saxena	A non-local derivative free Euler Bernoulli beam theory	
90	16:30	L03	ICCMS21_1655989044	Dr. Sachin Singh Gautam	Machine Learning Models for Stress Recovery in Finite Element Method	
91	16:45			ICCMS21_1617167035	Thimmesh T	Numerical Studies on Low Velocity Oblique Impact Analysis of Silicon Aluminum Composite Foam
92	17:00			ICCMS21_1628500603	Kishor Motiram Raut	A numerical study on auxetic cellular structure panel under close-in blast loadings
93	17:15			ICCMS21_1622547236	Rahul Kajla	Machine learning algorithms for crack identification in structural systems
94	17:30		ICCMS21_1617179324	Rajesh Tumuganti	A comparative study of machine learning algorithms for parameter identification in dynamical systems	
95	17:45		ICCMS21_1668074237	Sourabh Choudhary	Consolidation behaviour of Deep-Cement Mixing treated soft soil	
96	16:30	L04	ICCMS21_1669566907	Dr. Arnab Banerjee	An analytical approach towards contact dynamics between a rigid and flexible body	
97	16:45			ICCMS21_1619339980	Ravi Raj B M	Dynamic response of some noncarbon nanosheets using multiscale modelling
98	17:00			ICCMS21_1617188802	Yogesh S. Thube	Contact stress analysis using an experimental-analytical hybrid approach
99	17:15			ICCMS21_1657874099	N. Satish	Transient thermo-elastic analysis of a thin composite plate using three phase lag heat conduction
100	17:30		ICCMS21_1660369712	G. Hema T Raju	Influences of external magnetic field in thermo-mechanical vibration analysis of nanocomposite beam using higher order strain gradient theory	
101	17:45		ICCMS21_1656177417	Shyam Kishor Sharma	The Effect of Rolling Parameters on the Rolled Joint's Leak Tightness in PHWRs	
102	18:00		ICCMS21_1670000890	Sidhartha Sankar Roy	Finite element analysis of sloped wall tank for structural vibration control	