



**International Symposium**  
**on**  
**Nonlocal Mechanics Approaches for Modeling Localized Deformations**  
**NMAML D 2022, 7th-8th June, IIT Hyderabad, India**

**#Day 1- 7th June 2022**

Session Chair	Time (IST)	SCHEDULE
	8:00-9:30	REGISTRATION
	9:30-10:00	<b>INAUGURAL SESSION</b>
		Welcome address by Prof. A . Rajagopal, IIT Hyderabad Welcome address by Prof. Suriya Prakash, Head of the Department, IIT Hyderabad
Prof. Arun Srinivasa, Texas A&M University	10:00-11:00	Prof. J.N. Reddy, Texas A&M University, U.S.A. <b>Title: Modified couple stress theories of beams and plates, and modeling of web core structures</b>
	11:00-11:30	<b>BREAK</b>
Prof. Sivakumar, IIT Madras	11:30-12:00	Prof. Arun Srinivasa, Texas A&M University, U.S.A. <b>Title: GraFEA a nonlocal discrete graph based Finite element approach for simulating damage and fracture</b>
	12:00-12:30	Prof. Debashish Roy , IISc Bangalore, India <b>Title: Geometric Origins of Nonlocality in the Mechanics of Solids</b>
	12:30-13:00	Prof. Srikanth Vedantam, IIT Madras, India <b>Title: Constitutively informed multi-body interactions for discrete particle models</b>
	13:00-14:00	<b>LUNCH</b>
Prof. Arun Srinivasa, Texas A&M University	14:00-14:30	Dr.Ali Javili, Bilkent University, Turkey <b>Title: A Novel Take on Nonlocal Continuum Mechanics: Continuum-kinematics-inspired Peridynamics</b>
	14:30-15:00	Prof. Sivakumar M. Srinivasan, IIT Madras,India <b>Title: Is the material length scale parameter the same across all non-classical models?</b>
	15:00-15:30	Prof. Liqun Tang, South China University of Technology, China <b>Title: A three dimensional model of fiber network of hydrogel and its prediction of hydrogel's mechanical properties</b>
	15.30-16:00	<b>BREAK</b>
Prof. JN Reddy, Texas A&M University	16:00-16:30	Prof. Pablo Seleson, Oak Ridge National Laboratory, USA <b>Title: Peridynamics modeling of failure in composite laminates</b>
	16:30-17:00	Prof. Prakash Thamburaja, National University of Malaysia, Malaysia <b>Title: Fracture in nonlinear viscoelastic solids: Theory and finite-element computations</b>
	17:00-17:30	Prof. Ashok Kumar Pandey, IIT Hyderabad,India <b>Title: Frequency Analysis of Micro/Nano beams based on Nonlocal Elasticity and Strain Gradient Approach</b>



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**#Day 2- 8th June 2022**

Session Chair	Time (IST)	SCHEDULE
Prof. Srikanth, IIT Madras	9:00-10:00	Prof. Erdogan Madenci, University of Arizona, United States <b>Title: Advances in Peridynamic Modeling for Deformation and Failure</b>
	10:00-10:30	Prof. S. Gopalakrishnan, Iisc Bangalore, India <b>Title: Wave Dispersion in Non-local Waveguides</b>
	10:30-11:00	<b>BREAK</b>
Prof. Ratnakumar, IIT Madras	11:00-11:30	Prof. Alankar, IIT Bombay, India <b>Title: Multiscale Computational Mechanics of Deformation and Fracture</b>
	11:30-12:00	Prof. Saswata Bhattacharya, IIT Hyderabad, India <b>Title: Nonlocal Phase-field Model of Domain Dynamics in Ferroelectrics</b>
	12:00-12:30	Dr. Ratna Kumar Annabattula, IIT Madras, India <b>Title: Influence of contact and non-contact particle interactions on the quality of powder bed spreading for additive manufacturing</b>
	12.30 -13:00	Dr. Sai Sidhardh, IIT Hyderabad, India <b>Title: Fractional-order constitutive models for nonlocal elasticity</b>
	13:00-14:00	<b>LUNCH</b>
Prof. Saswata, IIT Hyderabad	14:00-14:30	Prof. Krishnan NM Anoop, IIT Delhi, India <b>Title: Machine learning constitutive models in Peridynamics using PeriDyn</b>
	14.30-15:00	Prof. Noël Challamel, University of South Brittany, France <b>Title: On the capability of Eringen's nonlocal elasticity to capture scale effects of lattice elasticity</b>
	15:00-15:30	Dr. Raghu Piska BITS Hyderabad, India <b>Title: Phase field modeling of damage in thick plates subjected to transverse loads</b>
	15:30-16:00	Prof. Mahendra Kumar Pal, IIT BHU Varansi, India <b>Title: Development of Higher order particle discretization scheme and its application</b>
		<b>BREAK</b>
Prof. Ashok Pandey, IIT Hyderabad	16.00-16:30	Dr. Saikat Sarkar, IIT Indore, India <b>Title: A derivative-free route to understand dynamics: A journey from stochastic filtering to mechanics</b>
	16:30-17:00	Pranavi Dhaldhuli, IIT Hyderabad, India <b>Title: Nonlocal modeling of quasi brittle materials under quasi static and dynamic loading</b>
	17:00-17:30	Closing Session, Distribution of Certificates