

ISSS International Conference on Micro, Nano, and Smart Systems (IC-MNSSS), 2024					
July 9-12 (Tuesday – Fri.), 2024					
Venue: J. N. Tata Auditorium in IISc Bengaluru					
Organised by IISc (Indian Institute of Science) , STARC (Semiconductor Technology and Applied Research Centre, DRDO), and CMTI (Central Manufacturing Technology Institute)					
		Day 0		9 July 2024 Master Class Lectures	
		Session Coordinator:		Prof. Gayatri Pillai	
9:30	9:30	Registration			
Start Time	End Time	Venue: AR Auditorium, Mechanical Engineering, IISc			
9:30	11:00	MCLS -1 Functional Materials Engineering: Printing and Coating technology , Speaker: Prof. Wim Deferme, University of Hasselt			
11:00	11:30	Coffee Break			
11:30	13:00	MCLS -2 Autonomous System and Robotics , Speaker: Prof. Amrutur Bharadwaj, IISc Bengaluru			
13:00	14:00	LUNCH BREAK			
14:00	15:30	MCLS-3 Quantum Computing, Speaker: Dr. Kalyan Dasgupta, IBM, Bengaluru			
15:30	16:00	TEA Break			
16:00	17:30	MCLS-4 Digital Agriculture, Speaker: Prof. M S Bobji, IISc Bengaluru			
Venue: J. N. Tata Auditorium in IISc Bengaluru					
17:30	18:00	Conference Registration			
18:00	19:00	Session Chair: Prof. V. K. Aatre: Inauguration and Special Lecture by Prof. Vijay K. Varadan			
19:00	19:30	Demonstration of Yakshagana			
19:30	20:00	Reception			
July 10-12 (Wed. – Fri.), 2024					
Venue: J. N. Tata Auditorium in IISc Bengaluru					
Organised by IISc (Indian Institute of Science) , STARC (Semiconductor Technology and Applied Research Centre, DRDO), and CMTI (Central Manufacturing Technology Institute)					
		Day 1		10 July 2024 Talk Schedule	
Venue:	Auditorium	Keynote 1	Session Chair	MEMS	
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
9:00	10:00	KT -1	Stephen Senturia	MIT, USA	MEMS on the Moon: The Search for Bulk Water
10:00	10:30	COFFEE BREAK			
Venue:	Auditorium	Session 1	Session Chair:	Wearable Sensors	
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-1.1	Brendan O'Flynn	Tyndall National Institute	Holistics - Wearable Research at Tyndall National Institute aiding in Frontline Medical Care
11:00	11:30	IT-1.2	Anitha Ethirajan	Hasselt University, Belgium	Responsive nanocarriers as advanced drug delivery systems
11:30	11:45	CT-1.1	Saranya Lakshmanan	Anna University, Chennai	POROUS MICRO STRUCTURED FLEXIBLE PRESSURE SENSOR FOR WEARABLE HEALTH MONITORING
11:45	11:50	PT-1.1	Atul Anand	IIT Patna	Using Computational Techniques in Artificial Neural Networks to identify Cardiovascular Disorders
11:50	11:55	PT-1.2	Revathy Purushothaman	Anna University, Chennai	A WEARABLE MICROFLUIDICS SENSING SYSTEM FOR NON-INVASIVE MONITORING OF MULTI-ANALYTES
11:55	12:00	PT-1.3	Arshya Loomba	VIT Vellore	Self-Powered Device to Monitor Seizures in Demetia and Other Interlinked Neural Disorders to Aid Patient Care
Venue:	Hall 1	Session SMA-1	Session Chair: Bishakh B	10:30 -12:00	Special symposium on Opportunities and Challenges in industrialization of SMA Applications
Venue:	Hall 2	Session 2	Session Chair:	Semiconductor Mission	
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT - 2.1	M.S. Ramachandra Rao	IIT Madras	A versatile ultra-wide bandgap electronic material for many applications
11:00	11:30	IT - 2.2	Ruth Houlihan	Tyndall National Institute	A MEMS device for launching nanoparticles
11:30	11:45	CT-2.1	Abbhiraaj Singh	KUAS Japan	Fracture Control of Si-MEMS using Electron Beam Induced Si-Nanodots
11:45	11:50	PT-2.1	Raeann Jesma	IISc Bengaluru	FEM analysis of Support Transducer Topology for High-Q Piezoelectric MEMS Resonators
11:50	11:55	PT-2.2	Harshita Aagiwal	IISER Bhopal	Design and Simulation of a Fork-Cantilever for Mass Sensing Application
11:55	12:00	PT-2.3	Amrit Mishra	IIT Hyderabad	Open and Closed-loop Analysis of Single-Axis MEMS Vibratory Gyroscope with Centrally Supported Proof Mass
Venue:	Hall 3	Session 3	Session Chair:	Photonic System	
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-3.1	Wim Deferme	University of Hasselt	Droplet-based deposition of Organic Light Emitting Diodes: Applying Ultrasonic Spray Coating and Spray-on-Screen for large-area ultra-thin coatings and devices
11:00	11:30	IT-3.2	Bhaskar Krishnamachari	USC, USA	Decentralized Computing for the Internet of Things
11:30	11:45	CT-3.1	Anantha Sunil Maligi	BMSCE	Comparative Analysis of SAW Substrate Materials for Unit Resonators
11:45	11:50	PT-3.1	Deekshitha Reddy P	BMSCE Bengaluru	Hardware accelerated Quantum resistant cryptography
11:50	11:55	PT-3.2	Dharanidharan J	SNU Chennai	Design of Tunable Optical Filter for NDIR Based In-situ Multi-gas Sensing Application.
11:55	12:00	PT-3.3	Saara K	Dayananda Sagar University	Detection of Tuberculosis using 2-D Photonic Crystal based Biosensor
12:00	13:00	Networking Sessions: Prof. Anurekha Sharma			
13:00	14:00	Poster Session and LUNCH BREAK			
14:00	15:00	Country Report: Dr. S. N. Veda			
Venue:	Hall 1	Session SMA-2	Session Chair: Debi Mohapatra	14:00 - 16:15	Special symposium on Opportunities and Challenges in industrialization of SMA Applications
Venue:	Auditorium	Keynote 2	Session Chair	Wearable Sensors	
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
15:00	16:00	KT -2	Prof. Giorgos Fagas	Tyndall National Institute	CMOS++: shaping the future of information processing at Tyndall National Institute

16:00	16:30	Poster Sesion and TEA BREAK			
Venue:	Auditorium	Session 4	Session Chair:		MEMS Devices
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:30	17:00	IT - 4.1	Takahiro Namazu	KUAS Japan	Micro/Nano Experimental Mechanics of Materials for MEMS
17:00	17:30	IT - 4.2	J.K.Radhakrishnan,	Debel, DRDO, Bangaluru	Needle Array Electrodes for EEG Monitoring
17:30	17:45	CT-4.1	Zaman Khan	STARC, Bengaluru	Design, Fabrication and Characterization of PVDF Acceleration Sensor
17:45	17:50	PT-4.1	Michiko Shindo	KUAS Japan	Pulsating-Tension Cyclic Loading Test for Investigating Fatigue Fracture Mechanism in AISI Thin Films
17:50	17:55	PT-4.2	Jujjuvarapu Sai Kishore	IIT Hyderabad	Design and Analysis of Curved Beam based Mechanical Amplifier in MEMS Accelerometer
17:55	18:00	PT-4.3	Nikul Jani	IIT Hyderabad	Closed-loop differential capacitive MEMS accelerometer with a compound lever-based compliant mechanism
Venue:	Hall 1	Session SMA-3	Session Chair:S M Sivakumar	16:45 - 18:00	Special symposium on opportunities and challenges in industrialization of SMA applications
Venue:	Hall 2	Session 5	Session Chair:		Digital Agriculture
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:30	17:00	IT - 5.1	Alan O'Riordan	Tyndall National Institute	Development of technologies for Sustainable Agri, food and Environment 4.0
17:00	17:30	IT - 5.2	Prakhar Gupta	IIT Hyderabad	Designing piezoelectric-like devices from non-piezoelectric materials
17:30	17:45	CT-5.1	Lekshmi V	Digital University Kerala	rGO@ZnO Nanocomposite-based Resistive Humidity Sensor
17:45	17:50	PT-5.1	Atul Anand	IIT Patna	A Smart Farmland For Crop Lesion Prevention And Crop Protection Using Sensors And IOT
17:50	17:55	PT-5.2	Mythili Kumaresan	Shiv Nadar University	ELECTROCHEMICAL SENSING BEHAVIOR OF AMMONIA DETECTION IN ALKALINE MEDIUM USING MANGANESE DIOXIDE NANOPARTICLES
17:55	18:00	PT-5.3	Nikila Nair	Digital University Kerala	An Inexpensive Electrochemical Sensor for the Detection of Acetaminophen
Venue:	Hall 3	Session 6	Session Chair:	Affiliation	Space Technologies
16:30	17:00	IT - 6.1	Meena Mishra	SSPL, Delhi	Smart Technologies for Defence
17:00	17:30	IT - 6.2	Sathyan Subbiah	IIT Madras	In-Space Manufacturing Technology
17:30	17:45	CT-6.1	Sai Pranav Awa	IISc Bengaluru	A Novel Accordion-like Disk Resonator Gyroscope
17:45	17:50	PT-6.1	Linnet C	IISc Bengaluru	Design of a Hybrid Piezoelectric Material Stack for Piezoelectric Micromachined Ultrasonic Transducer
17:50	17:55	PT-6.2	Sri Ram Shankar Rajadurai	NIT Trichy	Design and Analysis of a Piezo-flexure Amplifying Mechanism for Out-of-plane Nano-positioning
17:55	18:00	PT-6.3	Pradnya Chabbi	BITS Pilani	Coupled field simulation of MEMS Tuning Fork Gyroscope
18:00	18:30	Poster	Session Chair:		Interaction and Poster Session
Venue:	Auditorium	Public Lecture	Session Chair		Wearable Sensors
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
18:30	19:30	PL-1	Prof. P. Balram	NCBS, Bengaluru	Smartness in Biological Systems
		Day 2		11 July 2024	Talk Schedule
Venue:	Auditorium	Keynote 1	Session Chair		
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
9:00	10:00	KT - 2	Porf. Yasuhiko ARAKAWA	The University of Tokyo	Quantum Dots
10:00	10:30	Poster Sesion and COFFEE/TEA BREAK			
Venue:	Auditorium	Session 7	Session Chair:		Wearable Sensors
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-7.1	Andrei Irimia	USC, USA	Deep neural networks to monitor brain aging in health and disease
11:00	11:30	IT-7.2	Ranjit Gupta	SSM, Chulalongkorn University	Firm Strategy Insights Using Network Analysis of Interfirm Deals in IoT and Other Business Sectors
11:30	11:45	CT-7.1	Vikneshvar KS	VIT Vellore	Fix to Geriatrics malady: Triboelectric Nanogenerators aided self-sustainable approach to tackle neurodegenerative disorders.
11:45	11:50	PT-7.1	Sutrai Ravi Kumar	Shiv Nadar University, Chenna	Importance of Active sensor for current protection with practical approach
11:50	11:55	PT-7.2	Namratha Nayak	IISc Bengaluru	A Novel Technique of Obtaining Polygonal and Near-Free Form Shaped Dies using Conventional Blade Dicing Technology
11:55	12:00	PT-7.3	Abhishek Kumar	IISER Bhopal	Study of Closed-Loop Geometry for Large-scale Patterning Using Electrolithography Technique
Venue:	Hall 1	Session SMA-4	Session Chair: Srikanth Vedantam	10:30 - 12:45	Special symposium on opportunities and challenges in industrialization of SMA applications
Venue:	Hall 2	Session 8	Session Chair:		Photonics system
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-8.1	Bijoy Kumar Das	IIT Madras	Integrated Quantum Optical Circuit
11:00	11:30	IT-8.2	Shankar K Selvaraja	IISc Bengaluru	Photonics Packaging
11:30	11:45	CT-8.1	PUJA GHOSH	IISc Bengaluru	A Novel Sputtering based Pt decoration on ZnO for Ultra-fast ppb level Hydrogen detection
11:45	11:50	PT-8.1	Anshuman Panda	IISER Bhopal	Waste Fuel-Derived Carbon Soot Supercapacitors: Sustainable Energy Storage Solutions
11:50	11:55	PT-8.2	Mrityunjay Pandey	IISc Bengaluru	Ambipolar electrical Transport in MoS ₂ /WSe ₂ van der Waals heterostructure
11:55	12:00	PT-8.3	Swapnendu Ghosh	IISER Bhopal	Investigating the Effect of Electric Field Direction on the Electro-liquefaction of Cr Films
Venue:	Hall 3	Session 9	Session Chair:		Packaging Technology
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-9.1	Ravi Meduri	STARC, Bengaluru	LTCC Packaging
11:00	11:30	IT-9.2	Kafil M. Razeeb	Tyndall National Institute	Micro-thermoelectric device on silicon platform
11:30	11:45	CT-9.1	Harsha Sanjeev	CMTI Bengaluru	EXPERIMENTAL RESEARCH ON SILVER ALLOY WIRE BONDING AS AN ALTERNATE FOR BARE COPPER OR GOLD MATERIAL IN CONVENTIONAL WIRE BONDING
11:45	11:50	PT-9.1	Vishal Sahu	IIT Hyderabad	Fabrication of microchannels in Borofloat glass wafer using low-cost wet bulk micromachining

11:50	11:55	PT-9.2	S SELVARAJ	STARC, Bengaluru	A Capacitive Pressure Sensor with a New Wafer Level Sealing Approach
11:55	12:00	PT-9.3	Megha Agrawal	CMTI Bengaluru	Electroplated Copper Mask Based Glass Wet Etching for Development of Microfluidic Device
12:00	13:00	Student Contest Session - I: Prof. Gangadharan			
13:00	14:00	Poster Sesion and LUNCH BREAK			
14:00	15:00	Industry Session: Dr. Vidyashankar			
Venue:	Hall 1	Session SMA-5	Session Chair: Srikanth Vedantam	10:30 - 12:45	Special symposium on opportunities and challenges in industrialization of SMA applications
Venue:	Auditorium		Session Chair	Prof. Rudra Pratap	Fireside Chat Session Semiconductor Ecosystem in India
15:00	16:00		Chair:	Prof. Rudra Pratap	Vice Chancellor, Plaksha University (Also, IISc Bengaluru)
			Member:	Dr. Sunita Verma	MeiTY, Delhi
			Member:	Prof. Srinivasan Raghavan	IISc Bengaluru
			Member:	Prof. M S Ramachandra Rao	IIT Madras
			Member:	Prof. Bijoy Krishna Das	IIT Madras
			Member:	Dr. Ravi Meduri	CEO, STARC, Bengaluru
Venue:	Hall 1	Session SMA-6	Session Chair: Srikanth Vedantam	15:00 - 16:00	Special symposium on opportunities and challenges in industrialization of SMA applications
16:00	16:30	Poster Sesion and TEA BREAK			
Venue:	Auditorium	Session 10	Session Chair:		Biomedical System
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:30	17:00	IT - 10.1	Muralidhar Ghantasala	Western Michigan University	3-D printed PLA and ABS structures for cell proliferation and nanoparticle transport and drug delivery applications
17:00	17:30	IT - 10.2	Richa Mishra	BITS Mesra	Design and Simulation of MEMS based Cascaded Structure Electroosmotic Micropump
17:30	17:45	CT-10.1	Sushama Agarwalla	IIT Hyderabad	Advanced Design and 3D Numerical Simulation of Traveling Surface Acoustic Waves for Healthcare Applications
17:45	17:50	PT-10.1	Hrithika usha	Anna University	Design, analysis and optimization of screen printed electrode for biomedical application
17:50	17:55	PT-10.2	PANDILLAPALLY RAMA	IIT Hyderabad	Droplet microfluidics for real time single droplet analysis
17:55	18:00	PT-10.3	Priyanshu Mondal	Anna University	Modelling and Analysis of Multi-Analyte based Microfluidics System
Venue:	Hall 1	Session 11	Session Chair:		Smart Sensors and System
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:30	17:00	IT - 11.1	Padraig Lyons	Tyndall National Institute	Why decarbonised cities have to be smart cities
17:00	17:30	IT - 11.2	Akshay Joshi	IISc Bengaluru	Data Driven Mechanics
17:30	17:45	CT-11.1	Saara K	Dayananda Sagar University	LOW COST WEATHER FORECASTING BLIMP
17:45	17:50	PT-11.1	Mamta Devi	IIIT Allahabad	Investigations on Bi/Tricomposites of Biocompatible Films for Improved Piezoelectric Constant using Electrospinning Process
17:50	17:55	PT-11.2	MANU PAI	IISc Bengaluru	Development of Fast Response Triple redundant Cryogenic Temperature Sensor Using Graphene Nanocomposites for Aerospace Applications
17:55	18:00	PT-11.3	Saara K	Dayananda Sagar University	LOW COST WEATHER FORECASTING BLIMP
Venue:	Hall 2	Session 12	Session Chair:		
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:30	17:00	IT - 12.1	Satish Kumar Thittamaranahalli	USC, USA	Large-Scale Coordination of Warehouse Robots and Drones
17:00	17:30	IT - 12.2	Soo Young Park	KNU South Korea	Smart Molecular-Spring Photonic Film, Droplet, and Shell
17:30	17:45	CT-12.1	Lakshmi Ganapathi Kolla	NIT Kurukshetra	Studies on the Theoretical Anderson limit in Boron Doped Diamond Thin Films
17:45	17:50	PT-12.1	Joshitha C	KL University	Design and analysis of MEMS based Micromirror
17:50	17:55	PT-12.2	NIKHITHA KEERTHI MALLELA	NIT Kurukshetra	STUDIES ON THE INTERFACE CHARACTERISTICS OF HFO2- BASED FERROELECTRIC FIELD EFFECT TRANSISTORS
17:55	18:00	PT-12.3	Shreyas S	BMSCE, Bengaluru	RISC-V Based CNN Accelerator: Performance Enhancement through Winograd Convolution, ReLU Activation, and Kernel Pruning
Venue:	Hall 3	Session 16	Session Chair:	Prof. Alan O'Riordan	Panel Discussion Session
16:30	18:00		EU-India Center of Co-operation in Digital Agriculture - Chair: Prof. Alan O'Riordan		
18:00	19:30	Cultural Program			
19:30	21:00	BANQUET			
Day 3			12 July 2024 Talk Schedule		
Venue:	Auditorium	Keynote 3	Session Chair		
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
9:00 AM	10:00 AM	KT -3	Dr.Kalpana Aravind	ISRO, India	Smart Sensors in Space
10:00 AM	10:30 AM	Poster Sesion and COFFEE/TEA BREAK			
Venue:	Auditorium	Session 13	Session Chair:		Smart Biomedical System
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-13.1	Ravindra Mukhiya	CEERI Pilani	Evaluation of Residual Stress in Thin Films for MEMS
11:00	11:30	IT-13.2	L Rangaraj	NAL Bengaluru	Synthesis, Fabrication, and Characterization of Ti3AlC2 phase Reinforced PVDF composites
11:30	11:45	CT-13.1	Lakshmi Ganapathi Kolla	NIT Kurukshetra	Synthesis of Aligned Nanofibers Using a Conventional Electrospinning Setup
11:45	11:50	PT-13.1	PANDILLAPALLY RAMA	IIT Hyderabad	Droplet microfluidics for real time single droplet analysis
11:50	11:55	PT-13.2	Manish Kumar	IIT Mandi	Electrospun nanofibrous membrane for efficient bacterial removal and electrochemical sensing of biological drugs.

11:55	12:00	PT-13.3	Elsa Sharu Johnson	NIT Tiruchirappalli	Photoplethysmography Based Non-Invasive Continuous Blood Glucose Monitoring with Improved Feature Selection and Deep Learning Techniques
Venue:	Hall 1	Session SMA-6	Session Chair: M S Sivakumar	10:30 - 12:00	Special symposium on opportunities and challenges in industrialization of SMA applications
Venue:	Hall 2	Session 14	Session Chair:		Autonomous System
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-14.1	P. Rajalakshmi	IIT Hyderabad	Autonomous Navigation for Smart System
11:00	11:30	IT-14.2	Erdem Biyik	USC, USA	Preference Learning from Minimal Human Feedback for Interactive Autonomy
11:30	11:45	CT-14.1	Vishwas A S	NITK Surathkal	Autonomous Panoramic Imaging for Advanced Geospatial Mapping: A Versatile Solution with 360-Degree Camera Integration
11:45	11:50	PT-14.1	Rizwin Khanam	IISc Bengaluru	High Performance Hydrogen Sensor with Pt doped ZnO Synthesized Using Low-Cost Solution Dispensing
11:50	11:55	PT-14.2	parveen kumar	NIT Kurukshehra	Development of Ti3C2TX sheets intercalated with ZnCo2O4 for Microwave Absorption parameters over 2-18 GHz frequency region
11:55	12:00	PT-14.3	Praveen Kumar	IISc Bengaluru	Observation of Phononic Frequency Combs in Circular Piezoelectric MEMS Resonators
Venue:	Hall 3	Session 15	Session Chair:		Photonics Packaging
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
10:30	11:00	IT-15.1	Shourya Dutta Gupta	IIT Hyderabad	Nanoplasmonics and nano photonics
11:00	11:30	IT-15.2	Satish Laxman Shinde	IIT Hyderabad	Non-metallic plasmonic array for visible-NIR energy harvesting
11:30	11:45	CT-15.2	Sumanth Arige	IIITDM Kancheepuram	Exploration of defect engineering in h-BN for prospective quantum electronics
11:45	11:50	PT-15.1	Sumit Mev	IIT Hyderabad	Effect of electric field on the structural, ferroelectric and dielectric properties of (Mg _{1/3} Nb _{2/3}) ₄ -substituted ferroelectric material Na _{0.5} Bi _{0.5} TiO ₃
11:50	11:55	PT-15.2	Gowthami Anbazhagan	Anna University	INSIGHTS INTO THE MECHANICAL STABILITY ANALYSIS OF SOLID PVA PYRAMIDAL MICRONEEDLE ARRAY FOR TRANSDERMAL DRUG DELIVERY
11:55	12:00	PT-15.3	Manish Saha	IIT Hyderabad	Theoretical and experimental investigation of structural, electrical and photocatalytic properties of K _{0.5} Na _{0.5} NbO ₃ lead-free ceramics prepared via different synthesis routes.
12:00	13:00	Student Contest Session - II (Prof. Gangadharan and Team)			
13:00	14:00	Poster Sesion and LUNCH BREAK			
14:00	15:30	ISSS Silver Jubilee Session: Prof. Prakash Mangalagiri			
15:30	16:00	Poster Sesion and TEA BREAK			
Venue:	Auditorium	Session 16	Session Chair:		MEMS Devices
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:00	16:30	IT - 16.1	Abhay S Kochhar	Akoustik Technologies, Inc. (Formely)	Advancements in Piezoelectric Micro Resonators: Meeting the Challenges of RF Telecommunications
16:30	16:45	CT-16.1	Joslin Percy J	TCE, Madurai	Neural Networks in NEMS: Optimizing Fixed-Fixed CNT-based RF Switch
16:45	17:00	CT-16.2	Kanthamani S	TCE, Madurai	Optimization of RF MEMS based Anti-Biased Varactor using Regressor Model
17:00	17:15	CT-16.3	SUNANDANA SREE P	MSRIT Bengaluru	MATHEMATICAL MODELLING OF ELECTROSTATICALLY ACTUATED MICRO CANTILEVER BEAMS
17:15	17:30	CT-16.4	Shubham Kumar Mishra	IIITDM Jabalpur	Investigating the Influence of Immersed Length Variations on Vibration Frequencies in Cantilever Sensors A COMSOL Multiphysics Simulation Study
Venue:	Hall 1	Session 17	Session Chair:		Silicon Photonics and Devices
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:00	16:30	IT - 17.1	Durga Prasad Karothu	NYU, Abudhabi	Dynamic Crystals - Haptic memory devices
16:30	16:45	CT-17.1	Sukesh kumar	IIT Hyderabad	Exploring Structural Theory Analysis through Electrochemical Impedance Spectroscopy Data: Unveiling Deformation Mechanisms of Conducting Polymer Actuators
16:45	17:00	CT-17.2	Amith Srivatsa	BMSCE Bengaluru	SAW Module for Carrier Aggregation Transmitter Front End using MEMS Design
17:00	17:15	CT-17.3	Pratap Maity	IIT Hyderabad	Carbon nanofiber-based sensors to detect volatile organic compounds
17:15	17:30	CT-17.4	Adhisha Roy	IISER Bhopal	Study on coating parameters for achieving controlled surface wettability using octadecyltrichlorosilane
Venue:	Hall 2	Session 18	Session Chair:		Smart Resonators
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:00	16:30	IT - 18.1	Yogesh Kumar Srivastav	IIT Hyderabad	TeraHerz Resonators
16:30	16:45	CT-18.1	Sandeep Sharma K	IISc Bengaluru	Excitation of 10 ⁴ Quality Factor in a High Overtone Bulk Acoustic Wave Resonator Operating at 5 GHz
16:45	17:00	CT-18.2	PRATIP GHOSH	IISc Bengaluru	Fano Resonance in a 1D Photonic Crystal Cavity
17:00	17:15	CT-18.3	Priyanka Priyanka	IIT Hyderabad	A study on wet anisotropic etching of Si(100) in NH ₄ OH based solutions: The effect of surfactant concentration on the etching characteristics
17:15	17:30	CT-18.4	Pavithra B	IISc Bengaluru	Design, Development, fabrication, and testing of MEMS Pressure sensor integrated syringe
Venue:	Hall 3	Session 19	Session Chair:		Nanotechnology and Digital Agriculture
Start Time	End Time	Paper Code	Speaker	Affiliation	Title
16:00	16:30	IT - 19.1	Sudhir Sharma	NYU Abu Dhabi	Goldene- Free-standing One Atom Thick 2D Gold sheets
16:30	16:45	CT-19.1	Amita Somya	Apex University, Jaipur	Hybrid Metal Phosphates and Their Potential in Water Purification
16:45	17:00	CT-19.2	Aishwarya Hegde A	NITK Surathkal	Gated recurrent unit neural network for Rice Field mapping
17:00	17:15	CT-19.3	Piyali Mukherjee	IIST Shibpur	Thermally Reduced Graphene FET biochip on PCB for Rapid Antibiotic Detection in Contaminated Water
17:15	17:30	CT-19.4	D BAG	NIT Rourkela	Web Based & ICT Tools On Livelihood: Farm, Non-Farm And Allied Activities
17:30	18:00	Summary talks by Dr. Giridhar, Dr. Gayatri Pillai, Dr. Veda, Dr. Vidyashankar & Conference Awards			
18:00	21:00	BANQUET with special guests and ISSS Members			