

3rd International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2026)
16th - 17th April, 2026

Organised by
K J Somaiya School of Engineering
Program Schedule

Program	Day 1: 16 th April 2026	Venue
	Time	
Registration and breakfast	08:30 AM to 09:45AM	Registration - Entry to Auditorium Breakfast - A-225
Inauguration	10:00 AM to 10:50 AM	Auditorium
Plenary Talk	10:50 AM to 11:40 AM	Auditorium
Poster Display	Throughout the conference	Outside Auditorium
Tea Break	11:40 AM to 12:00 Noon	Outside Auditorium
Oral Presentation (Parallel Session 1)	12:00 Noon to 01:45 PM	A-315 A-202 A-209 B-113
Lunch	01:45 PM to 02:45 PM	A-225
Keynote Talk - 1	02:45 PM to 03:30 PM	Auditorium
Oral Presentation (Parallel Session 2)	03:30 PM to 05:30 PM	A-315 A-202 A-209 B-113
Conference Photo	05:30 PM to 05:45 PM	Entry to Aryabhata Building
High Tea	05:45 PM to 06:00 PM	A-225
End of Day One Schedule		
Program	Day 2: 17 th April 2026	Venue
	Time	
Registration and Breakfast	08:00 AM to 09:00 AM	Registration - Entry to Auditorium Breakfast - A-225
Oral Presentation (Parallel Session 3)	09:00 AM to 11:00 AM	A-315 A-202 A-209 B-113
Tea break	11:00 AM to 11:15 AM	Outside Auditorium
Keynote Talk - 2	11:15 AM to 12:00 Noon	Auditorium
Keynote Talk - 3	12:05 PM to 12:50 PM	Auditorium
Keynote Talk - 4	12:55 PM to 1:15 PM	Auditorium
Valedictory	01:20 PM to 01:45 PM	Auditorium
Lunch	01:45 PM to 02:45 PM	A-225
End of the Conference Schedule		
Auditorium: Smt. Sakarben Karamshi Somaiya Sabhagruha A- Aryabhat Building; B- Bhaskaracharya Building		

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ICTEAH 2026 Technical Program Schedule

Plenary Talk

Date and Time	Talk	Venue
16th April 2026 10:50 AM to 11:40 AM	Plenary Talk: Title: Accessible Content: The STEM Gap Speaker: Prof. Volker Sorge Professor of Document Analysis and Accessibility, School of Computer Science, University of Birmingham Edgbaston, Birmingham, B15 2TT, UK	Smt. Sakarben Karamshi Somaiya Sabhagrahu

Parallel Session 1: Mechanical and Allied-I

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
16th April 2026 12:00 Noon to 01:45 PM	Session Chair: Dr. B. N. Bhasme Sardar Patel College of Engineering, Mumbai			
	Venue: A-209			
	Energy	19	Laminar flame speed measurement of n-Butane-air mixtures at higher temperatures	VIJAY HARI SHINDE
	Energy	63	Novel design and development of solar and wind hybrid tree with air filtration system	Dr. Shivangi Viral Thakker
	Energy	77	Computational Analysis of Functionally Graded Armour Material against High Energy Impact	Saanvi Kusre
	Energy	150	Ballistic Impact Response of Ceramic-Composite Hybrid Armor Panels with Different Ceramic and Fiber Backings	ROHITKUMAR KAMALAPRASAD CHAURASIA
	Energy	316	Analysis of Panel of Infantry Fighting Vehicle under High Energy Impact	Nihal Usman Bashir
	Energy	349	Heat Transfer Analysis of Heat Sink	Shakil Abdul Hamid Shaikh
	Energy	312	Critical Modelling Parameters for Optimization of Robotic Assembly Lines Using SCARA and Six-Axis Robots	Parag Suryakant Sarode
Energy	346	Thermal Analysis of Epoxy Composite Insulation used in Medium-Voltage Circuit Breaker	Srishti Sharad Naik	

Parallel Session 1: IT and Allied-I

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
16th April 2026 12:00 Noon to	Session Chair: Dr. Radhika Kotecha K J Somaiya Institute of Technology, Mumbai			
	Venue: A-315			
	Agriculture	52	Explainable AI Models for Real-Time Soil Fertility and Crop Disease Diagnosis	Aayush Jadhav
	Agriculture	55	Smart Irrigation Using Leaf-	Ryan Reji

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01:45 PM			Based Stress Detection	
	Misc.	108	An Ensemble learning mechanism for DDoS attack detection in SDN-IoT network	Ameay Sanatkumar Gawde
	Agriculture	72	YOLOv8 AND YOLOv11 BASED DEEP LEARNING APPROACH FOR WEED DETECTION IN SUGARCANE FIELDS	Shreya Jhamb, Srushti Shailendra Patil
	Agriculture	78	Quantum Multi-Objective Route Optimization for Farm to Market transportation of Agricultural goods	KALPITA AJINKYA WAGASKAR
	Agriculture	98	YieldWise: A Multi-Modal MERN Framework for Crop Yield Prediction and Disease Diagnosis Using XGBoost and YOLO v8	Atharv Santosh Patil
	Agriculture	125	KRUSHI YANTRA - Real time Crops Diseases Detection and Pesticide Control for Precision Farming	Samruddhi Deokar
	Agriculture	137	SARIMA-XGBoost-Based Climate Anomaly Prediction for Cotton Yield in Nashik District	Vedant Deepak Shinde
	Misc.	252	AODV and DSR Based Hybrid Routing Protocol Mechanism for Improved VANET Efficiency	Diya Sanjay Shah

Parallel Session 1: IT and Allied-II

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
16th April 2026 12:00 Noon to 01:45 PM	Session Chair: Dr. Archana B. Patankar Thadomal Shahani Engineering College, Mumbai Venue: A-202			
	Healthcare	57	AI-Driven 3D Structural Modeling and Machine Learning-Based Cancer Risk Prediction of BRCA1 Protein	Sahil Biswas
	Healthcare	67	Tuberculosis Detection Beyond Dataset Bias: Exploring Transfer Learning and Synthetic Generation	Mannan Naidu
	Healthcare	97	Automated Detection and Classification of Retinal Vein Occlusion in Fundus Images Using Deep Learning	Vidya S Lunge
	Healthcare	110	A Comparative Study of Retrieval-Augmented Generation and Alternative Retrieval Methods for Automated Medical Coding	Poorva Yogesh Pathak
	Healthcare	118	Assessing Coral Reef Health using RGB Drone Imagery and Deep Learning	Sahil Biswas
	Healthcare	128	Blockchain-Based Hospital Management System Using Hyperledger Fabric: A	Soham Kadam

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			Decentralized Approach to Healthcare Data Management	
	Healthcare	131	Lung Cancer Classification Using Distributed Learning Based Convolutional Memory Network	KAMBLE SANTOSH ASHOK
	Healthcare	134	AI Based Platform for Predicting the Pathogenicity of Genetic Variants	Ponvishal Nadar
	Healthcare	341	Assistive Technologies for Inclusive Mathematics Education for Visually Impaired Individuals : Issues, Challenges and Future Directions	Kirti Mishra

Parallel Session 1: Electronics and Allied-I

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
Session Chair: Dr. Nitin Ahire Xavier Institute of Engineering, Mumbai. Venue: B-113				
16th April 2026 12:00 Noon to 01:45 PM	Healthcare	16	IoT-Centric Distributed System for Real-Time Patient Vitals Monitoring and Remote Actuation via LoRa Network.	Vimal Bethuraj J, VANATHI A
	Healthcare	178	Event-Based Analysis of Sectoral Public Sentiment to U.S. Tariff Policies Across Online Platforms	Sachit Rane
	Healthcare	231	Design and Implementation of an Intelligent Assistive Helmet System Using Multi-Sensor Fusion, SLAM, and A* Path Planning for Enhanced Spatial Awareness and Navigation for Blind People	Vansh Anand
	Healthcare	237	MediFly: Design and Performance Evaluation of an Autonomous Winch Based UAV System for Emergency Medical Supply Delivery	Anand Pramod Tiwari, Aditya Joshi
	Healthcare	278	SenseEZ: Offline Multilingual Smart Glasses for Reading and Indoor Navigation for the Visually Impaired	Shubham Gawde
	Healthcare	336	SAVER: Statistical Analysis and Prediction of Vehicle-Event Risk for Road Safety	GANDU VENU MADHAV REDDY
	Healthcare	33	IoT Based Health Monitoring System for Elderly Patients	Aagam Prashant Gosalia
	Healthcare	257	Vision-Based Structural Injury Risk Prediction in Indoor Climbing Routes	Samruddhi Prashant Ambre
	Time	Keynote Talk-1		
16th April 2026 02:45 PM to 3:30 PM	Title: Farm of the Future Speaker: Dr. J. Adinarayana Professor, Centre of Studies in Resources Engineering (CSRE), Indian Institute of Technology - Bombay (IITB), Mumbai			A-315

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Parallel Session 2: Mechanical and Allied-II

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
16th April 2026 03:30 PM to 05:30 PM	Session Chair: Dr. Divya Padmanabhan Pillai College of Engineering, Mumbai Venue: A-209			
	Healthcare	314	Wi-Fi CSI-Based Human Activity Classification Using Commodity Hardware	Abhiroop Padate
	Healthcare	317	Hemodynamic Analysis for Curved Shaped Artery with Aneurysm	Nidhi Ramchandra Singh
	Misc.	160	Novel Self-Cleaning Water System Using UV-Based Disinfection Technology	Rahul Rajendra Parkar
	Healthcare	210	Drying and Sterilization Techniques for 3D Bioprinted Natural-Polymer Scaffolds: Structural, Mechanical, and Biological Implications	Kavita Kumari Thakur
	Healthcare	348	Finite Element Analysis of Distal Femoral Growth Plate Stress Distribution in Genu Valgum Deformity	Sahil Wagle
	Misc.	218	Development of Eco-Efficient 3D Printing Filament from Discarded PET Bottles	Sandeep Raghunath Chopade
	Agriculture	295	Carbon Credits for Soil Organic Carbon: Methods, Market Relevance, Challenges and a Case Study	Mahajan Shivam Sopan
	Energy	347	Optimization and Digital Twin Simulation of a Dual Axis Solar Tracking System: Python Based Performance	Dhwan Shah
	Energy	332	From Waste to Wealth Assessing Portable Slow Pyrolysis Biochar as an Eco-Friendly Alternative to Synthetic Agrochemicals	Mohammed Talal Mulla

Parallel Session 2: IT and Allied-III

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
16th April 2026 03:30 PM to 05:30 PM	Session Chair: Dr. V. B. Nikam VJTI, Mumbai Venue: A-315			
	Agriculture	154	CNN-Based Multi-Crop Plant Disease Detection and Rule-Based Remedy Recommendation	Hrutika Bhoomeshwar Adepur
	Agriculture	157	Weed Detection and Classification Using Deep Learning for Precision Farming	Shivam Santosh Narvekar
	Agriculture	171	Embedded AI-Enabled Microscopy for Real-Time	Tanvi Minase

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			Marine Microorganism Identification and Counting	
	Agriculture	221	A literature Review of CNN Models Applied in Agriculture: Identification of Nutrient and Micronutrients deficiency in Fruit Crops	Ajahaar Ismailkha Pathan
	Agriculture	235	An Integrated Computer Vision & Hybrid Forecasting Model for Smart Farming in India	Dhruv Pankhania, Shlok Mehta
	Agriculture	246	An Evolutionary Architectural Analysis of YOLOv1–YOLOv12 for Dense Wheat Head Detection in Precision Agriculture	Shriya Salil Shetty
	Agriculture	253	Design and Implementation of an Impedance-Based TinyML System for Agricultural Water Quality Monitoring	Jayesh Pathak
	Agriculture	260	Early Convergence Analysis of Transfer Learning Models for Rapid Groundnut Leaf Disease Detection	Sushant Sukhadeo Gawade
	Misc.	59	Efficient Quantization of Large Language Models for CPU-Only Inference: A Case Study on MedGemma-4B	Sanket Dhuri
	Misc.	313	LiftLink: A Campus Carpooling App	Durvesh Vinayak Bedre

Parallel Session 2: IT and Allied-IV

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
16th April 2026 03:30 PM to 05:30 PM	Session Chair: Dr. Vaishali Gaikwad ATLAS SkillTech University, Mumbai Venue: A-202			
	Healthcare	139	Ethical, User-Centered, and Adaptive Design of an Indian Sign Language Recognition System for Inclusive Healthcare Communication	Harshal Wagh
	Healthcare	153	Explainable Ensemble Models for Reliable Stroke Risk Assessment	Nishant More
	Healthcare	175	Lung Cancer Detection with Explainable Artificial Intelligence	Sarah Shaikh, Ridima Sahasrabudhe
	Healthcare	180	AI-THLETE-Health: Offline-First Edge AI for Standardized Youth Fitness Assessment and Early Health Risk Screening	Shalini Majumdar
	Healthcare	181	Integrative Analysis of Embodied Conversational Agents in Mental Health: Efficacy, Ethics, and the A.I.S.H.A. Framework	Siddhant Shukla
	Healthcare	183	Adaptive Digital Augmentative and Assistive Communication System for Personalized Support in Children with Developmental Delays	Yashasvi Gupta, Shubhpreet Kaur

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Healthcare	185	AI-Powered Smart Spectacles for Real-Time Problem Solving and Visual Assistance	Ritesh Santra Somin Shah
Healthcare	195	An Intelligent and Personalized Food Allergy Detection System Using Barcode Scanning and AI-Driven Ingredient Analysis	Aditya Pawar
Healthcare	65	Privacy-Preserving Heart Disease Prediction: Federated Learning Approach Using Neural Networks	Prathmesh Rajendra Bhagat
Healthcare	309	Hybrid Active Learning and Ensemble Models for Efficient Multilingual Medical Diagnosis	Dev Baliga

Parallel Session 2: Electronics and Allied-II

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
16 th April 2026 03:30 PM to 05:30 PM	Session Chair: Dr. Sujata Kulkarni Sardar Patel Institute of Technology, Mumbai Venue: B-113			
	Energy	60	Design and Development of Three-Phase Programmable Source for Evaluating Equipment Under Varying Electrical Operating Conditions	Misbah Khan
	Energy	145	IoT-Enabled Smart Control of Electrical Loads for Energy Efficiency Using Zero Cost MQTT Broker and Cloud Hosting	Muslim Rangwala
	Energy	168	Miniaturised Solar USB Charger: A Tin-Encased NiMH-Based Energy Harvesting System for Portable Device Charging	Pratha Nagpal
	Energy	172	Physics-Informed Feature Engineering: Enhancing Short-Term Wind Power Forecasting	Anjney Vikas Salvi Ankita Survase Aarushee Pandagare
	Energy	204	Efficient Heptagonal-Shaped Dual-Band Rectenna for RF Energy Harvesting in 2.45 and 5.2 GHz IoT Applications	Nilesh A. Lakade
	Energy	335	EADC: An Energy-Aware Distributed Clustering Algorithm for Lifetime Enhancement in Wireless Sensor Networks	Kartik Ramesh Patel
	Energy	319	Securing the Smart Grid: A Review of Intrusion Detection Systems for IIoT-enabled Energy Infrastructures	Sanket Singhania
	Misc.	240	Transformer-Based Automated Detection of Floating Plastic Bottles in River Environments	Anusha Thosar
	Misc.	54	Dynamic Allocation of Spatial Spectrum in 6G Networks Using Agentic AI and Retrieval-Augmented Generation	Riddhi Koli

Parallel Session 3: IT and Allied-V

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
17 th April 2026 09:00 AM to 11:00 AM	Session Chair: Dr. Varsha Bhosale Vidyalankar Institute of Technology, Mumbai Venue: A-209			
	Agriculture	277	An Integrated Multi-Model Predictive Framework for Precision Agriculture: Balancing Yield, Market Dynamics, and Crop Suitability	Ayesha Shaheanwar Hakim
	Agriculture	293	Lightweight Deep Learning Framework for Multi-Crop Leaf Disease Classification Using Transfer Learning	Chetan Kumar
	Agriculture	315	Crop Yield Prediction for Maharashtra State Using Machine Learning and Climatic Data Fusion	Rohan Ramesh Shinde
	Agriculture	339	Agricultural Data Generator for Genomics using Deepfake	Santoshini Sahu
	Agriculture	130	Distributed Learning based Hybrid Deep Gradient Model for Crop Yield Prediction using SAR Images.	Anita Sunil Nalawade,
	Agriculture	344	An Interpretable Pest Risk Prediction and Decision Support System Aligned with Integrated Pest Management for Indian Agriculture	Mohammed Saud
	Agriculture	152	Explainable Deep Learning Framework for Cotton Leaf Diseases	Manoj Bhagwan Suryawanshi
	Misc.	158	Automated Musical Transcription: A Deep Learning Approach to 88-Key Piano Note Detection Using Mel-Spectrograms	YASHRAJ OLA
	Misc.	167	Piano Note Detection Using Short-Time Fourier Transform and Probabilistic Pitch Estimation	Aarya Pravesh Singh

Parallel Session 3: IT and Allied-VI

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
17 th April 2026 09:00 AM to 11:00 AM	Session Chair: Dr Anjali Yeole Vivekanand Education Society Institute of Technology, Mumbai Venue: A-315			
	Healthcare	229	An Interactive Data Cleaning and Incremental Learning Framework for Healthcare CSV-Based Clinical Anomaly Detection	Saniya Navelkar
	Healthcare	234	AstroCompanion (MAITRI): An Offline AI-Based Psychological Wellness System for Long-	Samruddhi Vijay Shewale, Ramanaya Karwa

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			Duration Space Missions	
	Healthcare	236	SAUA-GAN: Anatomy-Aware Hybrid GAN for High-Fidelity Dental Panoramic X-Ray Synthesis	Amisha Dhawal Bhoir
	Healthcare	242	AI – Based Respiratory Sound Classification for Respiratory Disorder Detection: A Systematic Review	Pratik Vetal
	Healthcare	243	Adaptive Multi-Branch GAN Transformer Diffusion Framework for High Fidelity Image Inpainting with Applications in Medical Imaging	Abhishek Manish Paithankar
	Healthcare	250	An Evidence-Based Determinant Framework for Context-Sensitive Glycemic Forecasting	Komal Shashank Shinde
	Healthcare	261	Investigating Drug Dosage and Purity Claims on Darkweb	Tejas Vinod Mhatre
	Healthcare	268	Analyzing Healthcare Data Exposure on the Dark Web Using Cyber Threat Intelligence Techniques	Nayanchand Trilokchand Sahu
	Misc.	184	Edge-AI Based Intelligent Retail Analytics Using NVIDIA Jetson	Vedant Sachin Kadam, Shreya Thapa

Parallel Session 3: IT and Allied-VII

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors
17th April 2026 09:00 AM to 11:00 AM	Session Chair: Dr. Vidya Chitre Vidyalankar Institute of Technology, Mumbai Venue: A-202			
	Healthcare	272	An Examination of the Structure and Operational Dynamics of Dark Web Marketplaces Facilitating Illegal Organ Trade	PRANALI NARENDRA BHAMARE
	Healthcare	292	A Multi-Criteria Decision Making for Trustworthy Evaluation of Large Language Models in Healthcare	Ahlam Shakeel Ahmed Ansari
	Healthcare	310	A Systems Approach to Enhancing Pharmaceutical Blister Packaging Performance Using ISM–MICMAC	JASH DESAI
	Healthcare	326	An Adaptive and Computationally Efficient IMU-Based Framework for Gait Event Detection and Spatiotemporal Parameter Estimation	Nathan Varghese
	Healthcare	337	Ai Driven Rare Lung Disease Detection	Lalit Manesh More
	Healthcare	342	PulmoScan AI: A Deep Learning Framework for Automated Lung Nodule Detection and Malignancy Prediction	Snehal Khandu Bandgar
	Energy	53	Noise Robustness Analysis of Hybrid Quantum-Classical Model for Solar Power Forecasting	Vaibhav Pandey

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	Energy	271	AI-based smart cooling system for data centres based on DQN+ LSTM method in Data Centres for energy saving	Dr. Kiruthika. B
	Misc.	297	Design and Implementation of Framework for Machine-to-Machine interaction using Large Language Models	Rasika Sawant

Parallel Session 3: Electronics and Allied-III

Date and Time	Track	Paper ID	Paper Title	Presenting/Registered Authors (Presenters Email)
17th April 2026 09:00 AM to 11:00 AM	Session Chair: Dr. Pranita Potey (Electronics) Lokmanya Tilak College Of Engineering, Navi Mumbai Venue: B 113			
	Agriculture	161	Different Approaches for Crop Health Monitoring Using Satellite Image Analysis	Aparajita Karmakar
	Agriculture	192	Digital Beamforming Based Radar Imaging and Tracking for Precision Agriculture Decision Support Systems	Heena Singh
	Agriculture	241	IoT and Machine Learning in Smart Irrigation: A Systematic and Scientometric Analysis	Tushar Hemraj Marathe
	Agriculture	273	Grainalyzer – YOLOv8-Based Real-Time Grain Classification Using Structured Image Acquisition and Custom Dataset	Abhishek Vangari
	Agriculture	338	Spectral Analysis and Monitoring for Vegetation Evaluation using Drones	Harshal Lokhande
	Misc.	174	NISARG: Design and Implementation of a Wireless Robotic System for Semi-Autonomous Gutter Waste Management	Madhavi Vishnu Pawar
	Misc.	255	Cross-Resolution Segmentation Framework using Satellite Images Over Pune-Nashik Region in Maharashtra, India	Dr. Makarand Govind Kulkarni
	Misc.	280	Design and Simulation of a Modified Bow-Tie Antenna for Ultra-Wideband Ground Penetrating Radar Applications	Chetan Kumar
Time	Keynote Talk-2			Venue
17th April 2026 11:15 AM to 12:00 Noon	Title: Biodiesel synthesis using a mixture of heterogeneous catalysts derived from waste Speaker: Dr. Srinivas Seethamraju Professor, Department of Energy Science and Engineering, IIT Bombay, Mumbai			Smt. Sakarben Karamshi Somaiya Sabhagruha
Time	Keynote Talk-3			Venue
17th April 2026 12:05 PM to 12:50 PM	Title: Beyond Hydrazine: How Green Propulsion is Making Space Safe, Sustainable, and Accessible for All			Smt. Sakarben Karamshi Somaiya Sabhagruha

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	Speaker: Mr. Tushar Jadhav Co-Founder, Manastu Space Technologies Private Limited, Mumbai	
Time	Keynote Talk-4	Venue
17th April 2026 12:55 PM to 01:15PM	Title: AI, Simulation, and Systems Thinking: Building Impactful Solutions in Energy, Agriculture, and Healthcare Speaker: Dr. Lakshminarayan Viju Ravichandran Technical Manager, Education Team, MathWorks India	Smt. Sakarben Karamshi Somaiya Sabhagruha

Contributed Poster

Track	Paper ID	Paper Title	Presenting/Registered
Agriculture	282	Detection and mapping Soil Salinity through Remote Sensing, GIS, and Machine Learning techniques: A Review	Amol Bhagwan Patil
Healthcare	302	Artificial Intelligence in Healthcare: Applications, Challenges, and Future Directions	Rishi J. Goyal Manaswitha Cherukuri

----- End of the conference Schedule -----