

PROGRAMME SCHEDULE-BME TRACK

| DAY 1 - 28TH APRIL 2023 | |
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| 8:30 am to 9:30 am | Registration at Main Building, UCE, OU |
| 9.15 am to 10.15 am | Inauguration at Assembly Hall, UCE, OU |
| 10.15 am to 11.00 am | Tea Break |
| 11.00 am to 11.45 am | <p>KEYNOTE ADDRESS - 1</p> <p>FROM THERMOSTATS TO INTELLIGENT SYSTEMS: MY LIFE IN CONTROL</p> <p>Dr. Kumpati S Narendra</p> <p>Harold W Cheel Professor Emeritus, Engineering, Yale University, USA</p> <p>Venue: Assembly Hall, UCEOU</p> |
| 12.00 pm to 1.00 pm | <p>TECHNICAL PAPER PRESENTATIONS-1</p> <p>Venue: Seminar Hall, BME Department</p> |
| <p>Session Chairs: Dr. M. Chandrasekhar (<i>Anurag University, Hyderabad</i>), Dr. K.E.CH. Vidyasagar (<i>Osmania University, Hyderabad</i>)</p> | |
| ICETE_BME_1991 | <p>Assistive Blood Pressure Monitor for Senile population</p> <p>Muthyala Prem Kumar, Reddymalli Narendra Reddy, S Deekshitha, D Srinath Reddy (<i>BV Raju Institute of Technology, Narsapur</i>)</p> |
| ICETE_BME_2064 | <p>Development of Sophisticated Smart Blind Stick using GSM and GPS</p> <p>Swamy K.C.T, Uday Kumar Boya, Shankar Goud P, Sai Vamshi Y and Akhil Yadav N (<i>G. Pullaiah College of Engineering and Technology, Kurnool</i>)</p> |
| ICETE_BME_3095 | <p>Voice Enabled Pulse Oximeter</p> <p>Dr. H. Sujana, Chekkala Meghana, Kelavath Rushi Naik, M. Arvind (<i>BV Raju Institute of Technology, Narsapur</i>)</p> |
| ICETE_BME_4435 | <p>Design and Develop an IPG System Without Using an Occlusive Cuff to detect Deep Vein Thrombosis</p> <p>Kaparathi Uday (<i>CVR College of Engineering, Hyderabad</i>), Prof. M. Malini (<i>Osmania University, Hyderabad</i>), Dr. Harikrishna Mulam (<i>VNR VJIET, Hyderabad</i>)</p> |
| 1:00 pm to 2:00 pm | Lunch Break |
| 2.00 pm to 2.45 pm | <p>TECHNICAL PAPER PRESENTATIONS-2</p> <p>Venue: Seminar Hall, BME Department</p> |
| <p>Session Chairs: Dr. H. Sujana (<i>BVRIT, Narsapur</i>), Er. G. Shrivanya (<i>Osmania University, Hyderabad</i>)</p> | |
| ICETE_BME_9832 | <p>The Virtual Keyboard is accessible Using Wireless EEG Device for Patient's with Paralysis</p> <p>Dr. Sravanth Kumar Ramakuri, Dr. Mukesh Prasad (<i>University of Technology, Sydney, Australia</i>), Mithileysh Sathiyarayanan (<i>Scientist, United Kingdom</i>)</p> |
| ICETE_BME_9117 | <p>BCI based home automation system by using SSVEP Signals</p> <p>D.Suman, Pavani Thadem, Srivoju Vaishnavi, Chilumula Dharani (<i>Osmania University, Hyderabad</i>), Zurian Ketema (<i>UNICEF, Jamaica, USA</i>)</p> |
| ICETE_BME_3422 | <p>Electrooculogram Based Wheelchair Control in Real-Time</p> <p>Dr. Harikrishna Mulam (<i>VNR VJIET, Hyderabad</i>), Dr. Malini Mudigonda (<i>Osmania University, Hyderabad</i>), Dr. Santosh Kumar B P (<i>YSR Engineering College, Proddutur, Andhra Pradesh</i>) and Dr. Harish Kuchulakanti (<i>Osmania University, Hyderabad</i>)</p> |
| 2.45 pm to 3.30 pm | <p>INVITED TALK -1</p> <p>RADIOLOGY: INSIGHTS FROM INSIDE</p> <p>Dr. Uday Krishnamurthy,</p> <p>Scientist, R&D-Collaboration Team for MRI at Siemens Healthineers in North America</p> <p>Venue: Seminar Hall, BME Department</p> |

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| 3.30 pm to 3.45 pm | Tea Break |
| 3:45 pm to 4.30 pm | <p style="text-align: center;">INVITED TALK- 2</p> <p style="text-align: center;">QUALITY BY DESIGN: HOW SYSTEMS ENGINEERING AND LIFECYCLE MANAGEMENT ENSURE EXCELLENCE IN MEDICAL DEVICE INNOVATION</p> <p style="text-align: center;">Dr Sudesh Sivarasu, Ph. D,</p> <p style="text-align: center;">Professor & Director - BME Research Centre, Head - UCT Medtech, Division of BME, Department of Human Biology, University of Cape Town, South Africa</p> <p style="text-align: center;">Venue: Seminar Hall, BME Department</p> |
| 4.30 pm to 5.45 pm | <p style="text-align: center;">TECHNICAL PAPER PRESENTATIONS-3</p> <p style="text-align: right;">Venue: Seminar Hall, BME Department</p> <p>Session Chairs: Dr. M. Harikrishna (<i>VNRVJIET, Hyderabad</i>), Er. Kiran Kore (<i>Osmania University, Hyderabad</i>)</p> |
| ICETE_BME_1259 | <p>Pulmonary Sound Analysis with Deep Learning for Efficient Respiratory Disease Categorization</p> <p>V. Ricky Deeven, V. Naveen Kumar, Y. Padma Sai, N. Akshitha, M. Kaivalya (<i>VNR VJIET, Hyderabad</i>)</p> |
| ICETE_BME_2158 | <p>Rule Based Classifier for the detection of Autism in children</p> <p>K Kusumalatha (<i>Sreenidhi Institute of Science and Technology, Hyderabad</i>), Y Ramadevi (<i>Chaitanya Bharathi Institute of Technology, Hyderabad</i>)</p> |
| ICETE_BME_7735 | <p>Heart Disease Prediction with Ensemble Learning Technique</p> <p>Dr. R. Santosh, B M Tripathi (<i>Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada</i>), A. Sreenivasa Rao (<i>Annamacharya institute of technology and sciences, Hyderabad</i>), Y. Satwik (<i>CVR College of Engineering, Hyderabad</i>)</p> |
| ICETE_BME_7930 | <p>Impact of Various Data Splitting Ratios on the Performance of Machine Learning Models in the Classification of Lung Cancer</p> <p>Archana Nazarkar (<i>BV Raju Institute of Technology, Narsapur</i>), Dr. Harish Kuchulakanti, Dr. Chandra Sekhar Paidimarry, Sravya Kulkarni (<i>Osmania University, Hyderabad</i>)</p> |
| ICETE_BME_9204 | <p>An Extensive survey on Various Tumor Detection in Histopathological Images using Deep Learning Techniques</p> <p>Monika Subramanian, Nagarajan Ganesan (<i>Puducherry Technological University, Puducherry</i>), Sathish kumar Balasubramaniyan (<i>AVC College of Engineering, Tamil Nadu</i>)</p> |

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| DAY 2 - 29TH APRIL 2023 | |
| 8:30 am to 9:30 am | Registration at Main Building, UCE, OU |
| 9:30 am to 10.15 am | <p style="text-align: center;">KEYNOTE ADDRESS - 2</p> <p style="text-align: center;">THE FUTURE WITH GENERATIVE AI</p> <p style="text-align: center;">Er. Veena Gundavelli</p> <p style="text-align: center;">Founder & CEO, Emagia, USA</p> <p style="text-align: center;">Venue: Assembly Hall, UCEOU</p> |
| 10.15 am to 11.00 am | <p style="text-align: center;">KEYNOTE ADDRESS - 3</p> <p style="text-align: center;">PRIVACY AND SECURITY ISSUES IN SPEECH PROCESSING</p> <p style="text-align: center;">Dr. Bhiksha Raj</p> <p style="text-align: center;">School of Computer Science, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA & Mohamed bin Zayed University of Artificial Intelligence, Masdar City, Abu Dhabi</p> <p style="text-align: center;">Venue: Assembly Hall, UCEOU</p> |
| 11.00 am to 11.30 am | Tea Break |
| 11.30 am to 12.15 pm | <p style="text-align: center;">INVITED TALK -3</p> <p style="text-align: center;">ADVANCEMENTS IN WEARABLE MEDICAL ELECTRONICS</p> <p style="text-align: center;">Er. P. Raja Reddy</p> |

Senior Design Engineer, Texas Instruments, Bangalore, India

Venue: Seminar Hall, BME Department

TECHNICAL PAPER PRESENTATIONS- 4

12.15 pm to 1.00 pm

Venue: Seminar Hall, BME Department

Session Chairs: Er. M. Venkateswara Rao (*Osmania University, Hyderabad*),

Er. M. Srinivas (*Osmania University, Hyderabad*)

ICETE_BME_926

Smart Glove for Tremor Detection

Srilatha Reddy Ambati, Shaja Khan, Ravali Peketi, Vara Prasad Kasukurthi (*B V Raju Instititue of Technology, Narsapur*)

ICETE_BME_2568

A Review of Brain MRI Image Enhancement Techniques

Raghu Amgothu (*Osmania University, Hyderabad*)

ICETE_BME_2792

Ganitha Sahaya- Math Tool for Special Education

Dr. H. Sujana, Rohith Sirpa, Pandurang Mirajkar (*BV Raju Institute of Technology, Narsapur*)

1:00 pm to 2:00 pm

Lunch Break

TECHNICAL PAPER PRESENTATIONS- 5

2.00 pm to 2.45 pm

Venue: Seminar Hall, BME Department

Session Chairs: Er. M. Venkateswara Rao (*Osmania University, Hyderabad*),

Er. B. Gayathri (*Osmania University, Hyderabad*)

ICETE_BME_5751

Unique Contactless Device to Detect Veins and Heart Rate

Chapala Sara Grace, M. Sreeja, M. Deepika (*Osmania University, Hyderabad*), Dr. Harikrishna Mulam (*VNR VJIT, Hyderabad*), Dr. Harish Kuchulakanti (*Osmania University, Hyderabad*)

ICETE_BME_8697

Estimation of HSP70 in SiHa cell lines during chemoradiation and radiation

B. Sai Lalitha, Dr. Mudigonda Malini (*Osmania University, Hyderabad*)

ICETE_BME_9238

A monopole resonator employing a monostatic radar approach to detect strokes in the brain

Rizwan Shaik, V Phani Kumar Kanaparathi, Sandeep Kumar P (*SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu*)

2.45 pm to 3.30 pm

INVITED TALK -4

IMAGING (MR) IN BREAST CANCER AND EMERGING TRENDS

Dr. Jaladhar Neelavalli

Senior Clinical Scientist, Health Systems, Philips India Ltd., Bangalore, India

Venue: Seminar Hall, BME Department

3.30 pm to 3.45 pm

Tea Break

3:45 pm to 4.30 pm

INVITED TALK- 5

THIN-FILM ENCAPSULATIONS FOR COMPLIANT IMPLANTABLE BIOELECTRONICS: ADVANCED MATERIALS AND RELIABILITY

Dr. Massimo Mariello

Ècole Polytechnique Fèdèrale de Lausanne, Switzerland

Venue: Seminar Hall, BME Department

TECHNICAL PAPER PRESENTATIONS - 6

4.30 pm to 5.30 pm

Venue: Seminar Hall, BME Department

Session Chair: Dr. D. Suman (*Osmania University, Hyderabad*),

Dr. K. Harish (*Osmania University, Hyderabad*)

ICETE_BME_862

Development of a Pheromone Based Smart Mosquito Trap

Sayed Sefat, Archi Alam Shefa (*Military Institute of Science and Technology, Dhaka*), Saif Ahmed Quarishi (*Tool & Technology Institute, Bangladesh Industrial Technical Assistance Center, Dhaka*), Sharif Neaz (*Department of Chemistry, Dhaka Commerce College, Dhaka*) and Md. Ashrafuzzaman (*Military Institute of Science and Technology, Dhaka, Bangladesh*)

ICETE_BME_5997

Result-Based Re-computation for Chronic Kidney Disease Prediction using SVM Classification

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| | P. Suresh Babu, C. Madhuvarshni, P.V. Jeyasree, L.S.S. Jeyaroshini, P. Deivendran (<i>Velammal college of Engineering and Technology, Madurai</i>) |
| ICETE_BME_7273 | Effect of Changes in Skin Conductance, Heart Activity and Temperature for Detecting Binary Pain by Analyzing Nociceptive Stimulation Tasnuba Tabassum Mourin, Rayesa Haque Rupanti, Nawrin Tasnim (<i>Military Institute of Science and Technology, Dhaka</i>), Saif Ahmed Quarishi (<i>Tool & Technology Institute, Bangladesh Industrial Technical Assistance Center, Dhaka</i>), Akid Arnob, Md. Ashrafuzzaman (<i>Military Institute of Science and Technology, Dhaka, Bangladesh</i>) |
| ICETE_BME_3400 | Smart Fitness Suit Ayyamgari Sandhya, Kavali Saiteja, Gundam Bharadwaja Reddy, Pargi Akshitha (<i>BV Raju Institute of Technology, Narsapur</i>) |

| DAY 3 -30TH APRIL 2023 | |
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| 8:30 am to 9:30 am | Registration at Main Building, UCE, OU |
| 9.30 am to 10.15 am | KEYNOTE ADDRESS - 4 LEVERAGING IOT TO ENHANCE WATER USE EFFICIENCY IN AGRICULTURE Dr Srinivasulu Ale Texas A&M University AgriLife Research Center, Vernon, USA Venue: Assembly Hall, UCEOU |
| 10.15 am to 11.00 am | KEYNOTE ADDRESS – 5 CUSTOM MEDICAL DEVICE DESIGN IN HEALTHCARE & MEDICINE Prof. Dominic Eggbeer Prof. of Healthcare Applications of Design Cardiff Metropolitan University, Cardiff, UK Venue: Assembly Hall, UCEOU |
| 11.00 am to 11.30 am | Tea Break |
| 1:00 pm to 2:00 pm | Lunch Break |