Report on International Conference "Advances in Computing, Control, and Telecommunication Technologies-ACT 2023"

About the Conference

ACT 2023, aims at bringing together the researchers, scientists, engineers, and scholar students in all areas of Computer Science, Control Engineering, Electrical and Electronics and Telecommunication Technology, and provides an international forum for the dissemination of original research results, new ideas and practical development experiences which concentrate on both theory and practices. The conference focuses on the frontier topics in the Computer Science, Electrical, Electronics and Telecommunication and Engineering subjects. The conference will be held on June 15th and 16th 2023 to make it an ideal platform for people to share views and experiences in Information, Telecommunication, Computing Techniques and related areas. The conference is jointly organised by the IDES and the Rajeev Institute of Technology, Karnataka.

Conference Brief:

The 14th International Conference on "Advances in Computing, Control, and Telecommunication Technologies – ACT 2023." This conference aims to provide a platform for researchers, scientists, and scholars from academia and industries to exchange their research ideas and enhance their research plans, especially in the fields of Computer & Information Science Engineering, Electronics & Telecommunications Engineering, Electrical Engineering, Civil Engineering, Mechanical Engineering, and Basic Science & Business Administration.

The ACT-2023 conference offers a platform for discussing recent advancements in research across various fields of Engineering, Science, and Technology. It serves as an opportunity for specialists to share and update their experiences in these areas. The international event also enables students, young engineers, and researchers to interact with leading experts in their respective fields. This forum allows experienced professionals to impart their knowledge and expertise to the next generation of specialists. With a total of 205 original research papers submitted. After a thorough review process conducted by expert referees, 108 papers were selected for inclusion in the conference. The overall acceptance rate, based on the referees' reports, is approximately 52.68%. All the submitted papers were relevant to their respective fields. The proceeding book contains all the accepted manuscripts, which are conveniently available in CD format.

The conference proceedings are expected to serve as a comprehensive compilation of current knowledge and experiences, benefiting engineers working on subjects presented at the ACT-2023 conference. The success of this conference to the positive response from the research community and the diligent efforts of our reviewers in providing timely and valuable feedback, despite the conference being organized on relatively short notice.

Day 1 – 15 June 2023

Its inaugural session began at 10 am in our Main Seminar Hall with the Chief Guest Dr.D S Guru, Guest of Honour Dr. H.S. Nagendraswamy, Hon. President Dr. Rachana Rajeev, Hon. Secretary Dr. Rathna B.N, Hon. Vice President Dr. Ranjith Rajeev, patron Dr. Mahesh P.K., General Chair Dr. H.N. Prakash, Organizing Chair Dr. Arjun B.C.

Dr. Prathibha G, Associate professor, Dept. of ISE, Sindhu Jain A M, Assistant Professor, Dept. of ISE were the Master of Ceremony.

1. Opening of Conference by Lighting the lamp:

2. Welcome Speech by Dr.Arjun B C, Professor & Head, Dept. of ISE

He welcomed the guests, delegates, the faculty and the students.

3.Briefing about conference by Dr. H N Prakash, Professor, Dept. of CSE

The convener of the conference introduced the theme of the conference to the audience.

4.Releasing Conference Proceedings:

5:Chief Guest Introduction is done by Jyothishree, Assistant Professor, Dept. of CSE:

6.Address by Chief Guest, Dr. D S Guru followed by Felicitation:

7. Guest of Honor Introduction is done by Sushma D S, Assistant Professor, Dept. of CSE:

8. Address by Guest of Honor, Dr. Nagendraswamy followed by Felicitation:

9.Address by Principal Dr. Mahesh P K:

10: Presidential address by Vice-President, Dr Ranjith Rajeev:

11. Vote of Thanks by Dr.Prathibha G, Associate Professor, Dept. of ISE:

Keynote biodata:

1. **Dr. D S Guru, Professor, Department of Studies in Computer Science, University of Mysore**

Dr. D S Guru is currently a Professor of Computer Science at University of Mysore. He graduated from University of Mysore holding Rank positions both at Bachelor's and Master's levels. After obtaining Ph.D from University of Mysore, he was at PRIP Lab, Michigan State University for his postdoctoral work. He was with Nymo Pvt Ltd as senior research scientist working towards productization of computer vision solutions. He is a recipient of BOYSCAST fellowship from DST, Gout of India, ARP award from VGST, Gout of Karnataka, India, and he is identified as a best ethical teacher at higher education by Rotary North Mysore. He chaired sessions and delivered lectures at many international conferences and workshops in India and also outside India including USA, China, Russia. He is a life member of several academic cum professional bodies. He serves as an associate editor for journal of Pattern Recognition and as a reviewer for many international journals. He edited 5 books and authored 3 text books. He has published 80+ research papers in reputed journals and more than 300 papers in proceedings of reputed conferences. His areas of research interest include image processing, pattern recognition, symbolic data analysis and data indexing. He is also an educationist being a founder trustee of Maharaja Education Trust in Mysore which established schools, colleges including colleges for engineering education.

2. **Dr. H. S. Nagendraswamy,Professor & Chairman,Department of Studies in Computer Science University of Mysore**

H. S. Nagendraswamy obtained his M.Sc. and Ph.D. degrees from University of Mysore, India in 1994 and 2007 respectively. He is currently working as Professor in the Department of Studies in Computer Science, University of Mysore, Manasagangothri, Mysore, Karnataka, India. His focused areas of research include Shape analysis, Texture analysis, Sign Language Recognition, Precision agriculture, Symbolic data analysis, Fuzzy theory, Biometrics and Video analysis. He is a life member of several academic cum professional bodies. He serves as an associate editor and as a reviewer for many international journals. He chaired sessions and delivered lectures at many international conferences and workshops. He has published more than 50 research articles in peer-reviewed International journals and conferences.

RAJEEV INSTITUTE OF TECHNOLOGY
HASSAN- 573 201, KARNATAKA
(Affiliated to VTU, Belagavi., Approved by AICTE, New Delhi.)

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

3. Dr. Lin Meng,Associate Professor,Dept. of Electronic and Computer Engineering,Ritsumeikan University, JAPAN

Dr. Lin Meng received the Ph.D. degree from the Graduate School of Science and Engineering, Ritsumeikan University, Kusatsu, Japan, in 2012., He was a Research Associate, an Assistant Professor, and a Lecture with the Department of Electronic and Computer Engineering, Ritsumeikan University, from 2011 to 2012, from 2013 to 2017, and in 2018, respectively. In 2015, he was a Visiting Scholar with the Department of Computer Science and Engineering, University of Minnesota at Twin Cities, Minneapolis, MN, USA. He is currently an Associate Professor with the College of Science and Engineering, Ritsumeikan University. His research interests include computer architecture, parallel processing, the Internet of Things, and artificial intelligence.,Dr. Meng is a member of the ACM, IPSJ, IEICE, and IEE.

12. Keynote address by Dr. Guru followed by Dr. Nagendraswamy:

Intelligent cameras extend the concept of smart camera by directly processing the pixels as they stream from the sensor. Working in a synchronous streamed pipeline processing mode, an FPGA incorporated into the camera is able to operate at the camera pixel clock rate. With careful design, this scheme minimizes memory accesses and reduces the latency over DSP based smart cameras. The transformation of the software image processing algorithm to an efficient intelligent camera implementation is demonstrated for global vision within robot soccer. The resulting intelligent camera requires no memory outside of the FPGA, and is able to provide the position and orientation of the objects while the image is being streamed from the sensor.

Offline Session schedule:

Day-1: Date:15/06/2023		
Time:12:00 – 12:15pm Registration near Seminar Hall (Main block 4th floor)		
Session:1 Venue-:Seminar Hall (Main block 4th floor) Time:12:30-1:30pm Session Chairs: Dr. Aravind C V, Dr. Uma B		
Time	**Title**	**Author Name**
12:30-12:38pm	Agriculture Precision: An effective-energy communication protocol for WSN	Sindhu Jain A M
12:40-12:48pm	Chronic Disease Prediction after covid-19 using Machine Learning	Suresha D
12:50-12:58pm	Investigation of Convolutional Neural Network with Motor Imagery-based Brain-Computer interface Decoding	Madhan H K
01:00-01:08pm	Diabetic Retinopathy Detection using Models of Deep Learning	Chithra A R
01:10-01:18pm	Securing the Data using Steganography Technique in Images	Dr.Sharath M N

Day-1: Date:15/06/2023		MBA
Session:1 Venue-: MBA Seminar Hall (Main block ground floor) Time:12:30-1:30pm Session Chairs: Bhavani B S, Dr Lakshmi		
Time	**Title**	**Author Name**
12:30-12:38pm	Job stressors and its impact on Work Life Balance of women at Technical teaching professionals in Tumkur District	Deepthi Amith
12:40-12:48pm	E-Commerce: Impact of AR and VR on Consumer Behavior	Mohammed Manish
12:50-12:58pm	Online advertisements: impact of chatbots on promotions	Muulidar Nayak
01:00-01:08pm	Healthcare Servicescape and Behavioural Intention of Patients	Bhavani B S
01:10-01:18pm	Innovation Management- The role of incubation centers	Dr.Mitta Sekhara gowd
01:20-01:28pm	The Factors Influencing Investor's Decision towards Invest in Equity Shares in Tumkur District	Naveen Kumar T S

Lunch Break: 1:30-2:30pm

Day-1: Date:15/06/2023		
Session:2 Venue-:Seminar Hall (Main block 4th floor) Time:2:30-5:15pm Session Chairs: Dr. Suresha D, Dr. Prakash H N		
Time	**Title**	**Author Name**
02:30-02:38pm	IoT based Solid Waste management & Analysis applying ML techniques	Dr.Chandrika J
02:40-02:48pm	Digital image watermarking using the Discrete Wavelet Transform for robustness	Gaganadeepa J
02:50-02:58pm	Detection & Classification of Blood Cancer using an Auto Encoder & a Regularized Extreme Learning Machine	Dr.Sharath M N
03:00-03:08pm	Recent development of Brain Tumor Detection & classification Techniques: A Review	Hanumanthappa S
03:10-03:18pm	A study on Computer-aided diagnosis of human brain tumor detection and classification using binary genetic algorithm and deep learning techniques.	Prashantha S J
03:20-03:28pm	Utilizing Deep Neural Network for upgrading the virtual try-on	Sinchana B Raj

Online Parallel (Indexing) Session schedule

Day-1: Date:15/06/2023		
Time:12:00 – 12:15pm Registration near Seminar Hall (Main block 4th floor)		
Session:1 Venue-:AR & VR Laboratory (Main block 3rd floor) Time:12:30-1:30pm Session Chairs: Dr Prashanth S J, Dr Ramamurthy		
Time	**Title**	**Author Name**
12:30-12:38pm	The Utilization of DenseNet121for Analyzing and Classification of leaf Image	Vishveshvaran R
12:40-12:48pm	Diagnosis of Diabetes Mellitus in Bengaluru North using Gradient Boosting Algorithm	Hemanth Kumar S
12:50-12:58pm	A Novel Approach revoking key agreement protocol on cloud using blockchain	Nishant Gajanan
01:00-01:08pm	IoT based vehicle authentication using fingerprint and anti-theft detection	Nageswaran G
01:10-01:18pm	Image to Text Conversion Using Deep Learning Models	Savitha Shetty
01:20-01:28pm	Effectiveness Of Machine Learning Techniques On Virtual Buying Behaviour	Dr. Suchitha Jha

Day-1: Date:15/06/2023		CV & Mech
Session:1 **Venue-:** **Time:12:30-1:30pm** **Session Chairs: Dr Dhananjaya, Dr Sujay**		
Time	**Title**	**Author Name**
12:30-12:38pm	**Effect of Al2O3 Nano-fuel Additive on Performance and Emission Characteristics of the Dairy Scum Biodiesel Blended Diesel Engine**	**Naveena Kumar R. R**
12:40-12:48pm	**Smart Blind Stick Using Arduino**	**Anil kumar B D**
12:50-12:58pm	**Applications of Lean Tools and Techniques to Improve the Performance of Supply Chain**	**Ashwini v**
01:00-01:08pm	**A Novel Approach Combining Entropy-Water Quality Index (WQI) and Multi-Criteria Decision-Making (MCDM) Analysis for Monitoring Water Quality in Mahanadi River Basin, Odisha**	**Abhijeet Das**
01:10-01:18pm	**Design and Fabrication of Smart Driving Assistance and Alerting System for Heavy Vehicles**	**Ekanth Gowda**
01:20-01:28pm	**Experimental investigation on the behaviours of CI engine fuelled with DEE additive blended for chicken fat oil as a biodiesel**	**Narayana swamy K M**
	Aerodynamic and Structural Analysis of Pitot Tube in a Fluid Stream Using FSI Approach	**Hanoca p**

Day-1: Date:15/06/2023		
Session:2 **Venue-: AR & VR Laboratory (Main block 3rd floor)** **Time:2:30-5:15pm** **Session Chairs: Dr Aravind C V, Dr Prathibha G**		
Time	**Title**	**Author Name**
02:30-02:38pm	**Big Mart sales prediction**	**Saritha Shetty**
02:40-02:48pm	**Real-Time Medicine Packet Recognition System in Dispensing Medicines using YOLOV8**	**Chris Xavier Mathias**
02:50-02:58pm	**AUGMENTED REALITY AS A VISUAL AID FOR CLASSROOMS: Supplemented by a Case Study**	**Meghna Asuti**
03:00-03:08pm	**Evolution of Degraded Historical Manuscripts Binarization Techniques - A Review**	**Aniketh Shenoy**
03:10-03:18pm	**An eye on hydroponics: The IoT initiative**	**Gagan P R**
03:20-03:28pm	**Data Integration and Transformation using Large Language Models**	**Muskan Rizwan sahikh**

Time	Title	Author
03:30-03:38pm	Remote Based Forest fire Detection and Prevention using IOT	Shravya J M
03:40-03:48pm	A Novel Neural Network based Scheme to Monitor and Detect Sleep Apnoea in Neonates -A step towards Cost Effective NICU	Purnima P S
03:50-03:58pm	Automated Bird Species Identification Using Audio Signal Processing and Neural Network	Namitha A R
04:00-04:08pm	E-Learning System for Farmers in Rural Villages	Manu Y M
04:00-04:18pm	BRAIN CONTROLLED WHEELCHAIR Based on Brain Computer Interface	Manu Y M
04:20-04:28pm	Smart E-Tendering System using Blockchain	Danvitha

Online Parallel (Proceedings) Session schedule

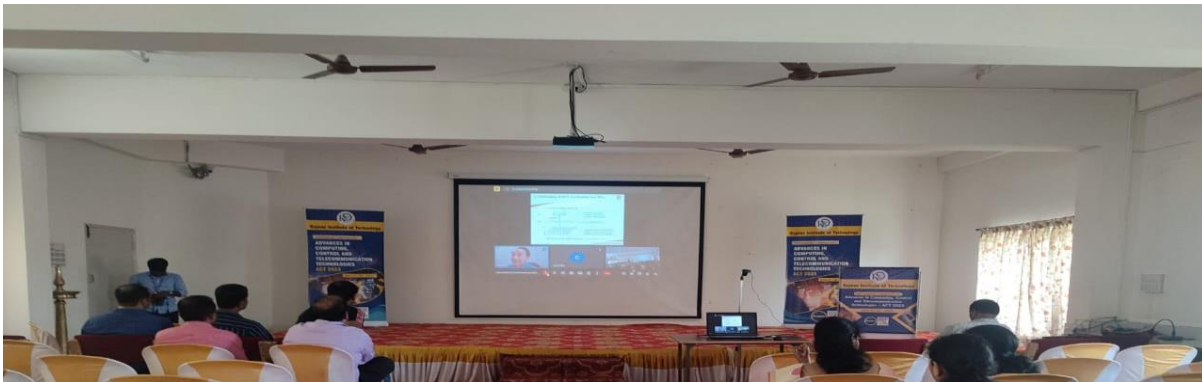| Day-1: Date:15/06/2023		
Session:2		
Venue-: 210 Laboratory (Main block 2nd floor)		
Time:2:30-5:15pm		
Session Chairs: Umme Sadiya, Nalini H C		
Time	**Title**	**Author Name**
02:30-02:38pm	Self Driving Simulation of AI- Car using Neural Networks	Kruthika T
02:40-02:48pm	Implementing multi-factor Authentication for enhanced cyber security in cloud storage	Sajjad Ahemad
02:50-02:58pm	Twitter sentimental analysis using machine learning methods	Shashikala M K
03:00-03:08pm	Emotion Recognition Using Deep Learning and OpenCV	Shashikala M K
03:10-03:18pm	Pathology Classification Using Voice Signals	Monika M M
03:20-03:28pm	Plant leaf diseases detection	Bhoomika H H
03:30-03:38pm	Fraud Detection Analysis for Insurance Claim Using Machine Learning	Indumathi, varsha
03:40-03:48pm	Object detection in Satellite images using CNN	Asfiya Khanum
03:50-03:58pm	Identifying the android malware using SVM & ANN techniques	Bhuvana H S
04:00-04:08pm	Automated Waste Segregation	Pavan

CONTENTS

Day 2 – 16 June 2023

1.Introduction of Keynote Dr.Lin meng, done by Dr.H N Prakash, Professor, Dept. of CSE.

2.Keynote Address by Dr. Lin meng, Professor, Ritsuimekian University, Japan(through online)

Food waste is made up of materials intended for human consumption that are subsequently discharged, lost, degraded or contaminated. The problem of food waste is currently on an increase, involving all sectors of waste management from collection to disposal; the identifying of sustainable solutions extends to all contributors to the food supply chains, agricultural and industrial sectors, as well as retailers and final consumers. A series of solutions may be implemented in the appropriate management of food waste, and prioritised in a similar way to waste management hierarchy. The most sought-after solutions are represented by avoidance and donation of edible fractions to social services. Food waste is also employed in industrial processes for the production of biofuels or biopolymers. Further steps foresee the recovery of nutrients and fixation of carbon by composting. Final and less desirable options are incineration and landfilling. A considerable amount of research has been carried out on food waste with a view to the recovery of energy or related products. The present review aims to provide an overview of current debate on food waste definitions, generation and reduction strategies, and conversion technologies emerging from the biorefinery concept.

Offline Session schedule

Day-2: Date:16/06/2023		
Session:3		
Venue-: Seminar Hall (Main block 4th floor)		
Time:10:45-1:15pm		
Session Chairs: Dr. Aravind C V, Dr. Arjun B C		
Time	**Title**	**Author Name**
10:45-10:53am	**MVR: a Mobile Edge Computing Framework for Performance Offloading**	**Ankitha S**
10:55-11:03am	**Estimation Of Fetal Birth Weight During High Risk Pregnancies Through ML**	**Spandana H S**
11:05-11:13am	**Data Security Using Audio-Video Steganography**	**Bhoomika S**
11:15-11:23am	**Exploratory Research of Brain-Tumor Detection and Classification using Deep-Learning-Technique**	**Megha H C**
11:25-11:33am	**Finger Gesture Recognition to Implement Virtual Keys in a Keyboard**	**Nayanashree D**
11:35-11:43am	**Classification of Weed and Crops using Computer Vision and Deep Learning Technique**	**Sushma D S**
11:45-11:53am	**Optimal Discovery Expelling Blueprint for Cognitive Radio Networks**	**Sahana G C**
11:55-12:03pm	**Development of Automatic Segmentation Techniques Using Convolutional Neural Networks to Differentiate Brain Tumors**	**Dr. Prathibha G**

Day-2: Date:16/06/2023		
Session:4		
Venue-: Seminar Hall (Main block 4th floor)		
Time:02:15-4:15pm		
Session Chairs: Dr. Aravind B N, Dr. Suresha D		
Time	**Title**	**Author Name**
02:15-02:23pm	**Design and Implementation Smart Energy Metering System Integrated with Internet of Things Using SCT-013 Current Sensor**	**Shridar H S**
02:25-02:33pm	**Smart Agriculture Irrigation System using IOT and Green Crew**	**Shridar H S**
02:35-02:43pm	**Connectivity Index of Eugenol**	**M Somashekar**
02:45-02:53pm	**Energy Management of Renewable Energy Resources Powered Distribution Storage System in Grid-tied Microgrid**	**Nagendraprasad H K**
02:55-03:03pm	**Cross Polarized Radiations Suppression in Modified Sphere Dielectric Resonator Antenna Using Perturbation Technique**	**Lokeshwari H S**
03:05-03:13pm	**Crop yield Prediction using Machine learning Analysis**	**Vishwanath B R**
03:15-03:23pm	**Effect of Dyes on Sulphamic Acid Single Crystals And Their Growth, Structural, Dielectric And Mechanical Studies For Optoelectronic Applications**	**Dr. Sahana C P**

03:25-03:33pm	Design and Implementation of n bit Sequence Detector using FSM Model	Vikas R
03:35-03:43pm	A Review Paper on Brainwave Sensor for Identification & Control of Hypertension	Praveen Sndagi

Online (Indexing) Session schedule

Day-2: Date:16/06/2023		
Session:3 Venue-: AR & VR Laboratory (Main block 3rd floor) Time:10:45-01:15pm Session Chairs: Dr Suresh, Dr Radhakrishna		
Time	**Title**	**Author Name**
10:45-10:53am	Implementing an Interactive VBE and IPSL Aid for the Disabled	Keshav Krishna kumar
10:55-11:03am	Litter Classification Based on Convolution Neural Network	Druthi S
11:05-11:13am	IOT Based Worker Safety Monitoring And Alerting System in Coal Mines	Pooja K V
11:15-11:23am	Techniques for Torque Ripple Mitigation in BLDC Motor for Electric Vehicle	Athira R
11:25-11:33am	Supervised Maximum Likelihood Approach for Land Use Land Cover Dynamics in Semi-Urban Area	Sinchana G S
11:35-11:43am	Estimation of Landslide Damage Areas in Malenaadu Kodagu District using Minimum Distance Classifier	Arpitha G A
11:45-11:53am	Solar Based Railway Track Fault Detection System	Namitha A R
11:55-12:03pm	Design of optical filter of 2D Photonic Crystal Ring Resonator Based Pressure Sensor	Tejaswini M R
12:05-12:13pm	HEART RATE DETECTION USING BESSELWORTH FILTER	PRAFULLA P S
12:15-12:23pm	Analysis of Value Stream Mapping Framework with Machine Learning Techniques	Dr. Deepak H A
12:25-12:33pm	Prediction Of Epidemic Trends Of Monkeypox Virus In Humans Using SEIR Model Simulation	Khushi Gandhi
12:35-12:43pm	Real-time driver tiredness detection using CNN, YOLO, and the CamShift algorithm.	Dr. Arjun B C

Day-2: Date:16/06/2023		
Session:4 Venue-: AR & VR Laboratory (Main block 3rd floor) Time:02:30-04:15pm Session Chairs: Dr Sharath M N, Dr Aravind C V		
Time	**Title**	**Author Name**
02:30-02:38pm	Low-Cost Speech to Text Translation Handwriting Robot using Arduino and Google	Sanjay S Tippanna

Time	Title	Author Name
	API	
02:40-02:48pm	Machine learning methods for analysis of Indian Currency Counterfeiting	Prathibha T
02:50-02:58pm	Smart shopping cart using CNN	Kshama S
03:00-03:08pm	Voter Whitelisting in Blockchain-based E-Voting Using Merkle Tree	Ishita Bhardwaj
03:10-03:18pm	A Survey on Deep Learning Methods for Speech Emotion Recognition	Lakshmi K C
03:20-03:28pm	Electronic Market for Farmers	Shilpashree
03:30-03:38pm	Classification of Video Using Neural Network Technique	Hemanthkumar S S
03:40-03:48pm	Brain Controlled Wheelchair Based on Brain Computer Interface	Manu Y M
03:50-03:58pm	Smart E-Tendering System using Blockchain	Dhanvitha

Online Parallel (Proceedings) Session Schedule

Day-2: Date:16/06/2023		
Session:3 Venue-: 210 Laboratory (Main block 2nd floor) Time:10:45-12:15pm Session Chairs: Anil Kumar K N, Shashikala M K		
Time	**Title**	**Author Name**
10:45-10:53am	Therapeutic Assistant Chatbot Using Artificial Intelligence	Ruchitha D n
10:55-11:03am	An Efficient and Intelligent Decision Making for Eco-Fertilization	Bhavana H J
11:05-11:13am	Fruit Quality Detection Using Computer Vision	Sushma D S
11:15-11:23am	AI-Based Academic Style Projection for Elementary School Students in Virtual Classroom	Abhishek D M
11:25-11:33am	Prediction and Analysis of Academic Performance using Multisource, Multifeatured Behavioural Data	Neha P
11:35-11:43am	Drug Recommendation System based on Sentiment Analysis	Meghan Gowda T H
11:45-11:53am	Stroke Prediction Using ML	Ameena Bee
11:55-12:03pm	Research Paper on Omega GPT - an ai powered Chatbot	Nayanashree D
12:05-12:13pm	Social Media Spammer Identification Using Machine Learning	Sahana G C

Day-2: Date:16/06/2023		
Session:4 Venue-: 210 Laboratory (Main block 2nd floor) Time:02:15-05:15pm Session Chairs: Ravi L S, Ambika		
Time	**Title**	**Author Name**
02:15-02:23pm	Grading Mango's Quality using Machine Learning Based on External Features	Dr. Aravind B N
02:25-02:33pm	Passenger Monitoring System using Microcontroller	Rashmi. L
02:35-02:43pm	IOT Based Underground Cable Fault Detector	Arshika Irram
02:45-02:53pm	Cloud based Women Safety Management and Black Box Using Automation and IoT	Rohith P
02:55-03:03pm	Electric Vehicle and Wireless Charging using IOT	Radhakrishna K R
03:05-03:13pm	VANET: A Vehicle Showing Path to Another Vehicle	Rohith P
03:15-03:23pm	Single Axis Solar Tracking System Using Arduino	Manasa A
03:25-03:33pm	Coal Safety Monitoring System	Rekha M G
03:35-03:43pm	Sericulture Farm Automation using IOT	Rekha M G
03:45-03:53pm	Distance Measurement of moving object using Arduino uno	Ambika

Paper No	College	Dept	First Author	EMAIL
ACT-RIT-1	New Horizon college of Engineering	CSE	Geluvaraj.B	rvishwa248@gmail.com
ACT-RIT-2	New Horizon college of Engineering	CSE	Dr Tejas K R	1nh19cs060.hemanth.m@gmail.com
ACT-RIT-3	JSPM's Rajarshi Shahu College of Engineering	CSE	Nishant Gajanan Deshmukh	nishant44deshmukh@gmail.com
ACT-RIT-4	Rajeev institute of Technology	ISE	Sindhu Jain A M	sindhujainam96@rithassan.ac.in
ACT-RIT-5	Rajeev institute of Technology	ISE	AISHWARYA AP	kruthikat912001@gmail.com
ACT-RIT-6	New Horizon college of Engineering	CSE	Priya T V	1nh19cs079.kishore@gmail.com
ACT-RIT-7	AJ institute of Engieering & Technology	ISE	Suresha D	prakash.hn98@gmail.com
ACT-RIT-8	Navkis College of Engineering	CSE	Madhan HK	madhanmj911@gmail.com
ACT-RIT-10	Rajeev institute of Technology	ISE	Dr. Prathibha G	sajjadahmedlap@gmail.com
ACT-RIT-11	New Horizon college of Engineering	CSE	Yogitha	bsbharath2019@gmail.com
ACT-RIT-12	New Horizon college of Engineering	CSE	Geluvaraj.B	1nh20cs415.umesh@gmail.com
ACT-RIT-13	REVA University	CSE	P. Sreevarshini	shamabharath6@gmail.com
ACT-RIT-15	New Horizon college of Engineering	CSE	Dr. Nirmala M	thejeshreddy1508@gmail.com
ACT-RIT-16	Rajeev institute of Technology	ISE	Gagana Deepa	jgaganadeepa@gmail.com
ACT-RIT-17	Rajeev institute of Technology	CSE	Chitra A R	prakash.hn98@gmail.com
ACT-RIT-18	Rajeev institute of Technology	ECE	Aravind B N	aravindbn@rithassan.ac.in
ACT-RIT-19	Alvas Institute Of Engineering and Technology	CSE	Vasudev S Shahapur	shrinidhi3398@gmail.com
ACT-RIT-20	Vidyavardhaka College of Engineering	CSE	Gowri S Chandra	bsanu899@gmail.com
ACT-RIT-21	New Horizon college of Engineering	CSE	Subhashree Rath	nagesh22801@gmail.com
ACT-RIT-22	New Horizon college of Engineering	CSE	Dr.B. Meenakshi Sundaram	1nh19cs077.keshavkk@gmail.com
ACT-RIT-23	Rajeev institute of Technology	MECH	Naveena Kumar R. R	naveenmech415@gmail.com
ACT-RIT-24	APJ Abdul Kalam Technological University	ECE	Krishna A	krishna6023@gmail.com
ACT-RIT-25	Vidyavardhaka College of Engineering	CSE	Disha M D	deenass2001@gmail.com
ACT-RIT-27	Coorg Institute of Technology	ECE	Mahendra S M	anishaa2001@gmail.com
ACT-RIT-28	JSS Academy of Technical Education	RA	Ramya M V	sanjayu2345@gmail.com
ACT-RIT-29	Alvas Institute Of Engineering and Technology	CSE	Deeksha M	dharmarajsachin3@gmail.com
ACT-RIT-30	Rajeev institute of Technology	CSE	Prathibha T	prakash.hn98@gmail.com
ACT-RIT-31	Malnad Collage of Engineering	ISE	Akshay M A	akshay2425ps@gmail.com
ACT-RIT-32	NHCE	CSE	Lakshmi Hanne	likhithkurubas1@gmail.com
ACT-RIT-33	BGSIT Adichunchanagiri University	ISE	Vidhya S G	vidhyasg@bgsit.ac.in
ACT-RIT-34	New Horizon college of Engineering	CSE	BALAJI S	hilltop.balaji@gmail.com
ACT-RIT-35	New Horizon college of Engineering	CSE	Gelvuraj.B	kartikkeyankant.official@gmail.com
ACT-RIT-36	New Horizon college of Engineering	CSE	Jayashree M	1nh19cs708.athulroy@gmail.com
ACT-RIT-37	Indira Gandhi Delhi Technical University for Women	CSE	Ishita Bhardwaj	vanichitkara18@gmail.com

ACT-RIT-38	New Horizon college of Engineering	CSE	Chempavathy B	shaynam1nh19cs014@gmail.com
ACT-RIT-39	Rajeev institute of Technology	MECH	Sanjay Patel H. R	gowdayashwanth51@gmail.com
ACT-RIT-40	G. H. Raisoni College of Engineering	CSE	Rushikesh Shaharao	rushikesh.shaharao@gmail.com
ACT-RIT-41	Rajeev institute of Technology	CSE	Sharath M N	sharathmn64@rithassan.ac.in
ACT-RIT-42	Rajeev institute of Technology	CSE	Anusha K M	sharathmn64@rithassan.ac.in
ACT-RIT-43	Rajeev institute of Technology	CSE	Chiranth R Prasad	sharathmn64@rithassan.ac.in
ACT-RIT-44	Rajeev institute of Technology	CSE	Lakshmi K.C	sharathmn64@rithassan.ac.in
ACT-RIT-45	Rajeev institute of Technology	CSE	Sharath M N	sharathmn64@rithassan.ac.in
ACT-RIT-51	Coorg Institute of Technology	ECE	Dr. Divakara S S	indu.gubsi@gmail.com
ACT-RIT-52	Rajeev institute of Technology	ISE	Dr. Prathibha G	prathibhaghebbar@gmail.com
ACT-RIT-53	AIET Mijar	CSE	Vidya	ganesh.jshetty2001@gmail.com
ACT-RIT-54	BGSIT Adichunchanagiri University	CSE	DHRUTHI S	manuym@bgsit.ac.in
ACT-RIT-55	BGSIT Adichunchanagiri University	ISE	Vidhya S G	vidhyasg@bgsit.ac.in
ACT-RIT-56	REVA UNIVERSITY	CSE	Keerthana P	aftabapu131@gmail.com
ACT-RIT-57	New Horizon college of Engineering	CSE	Dr. Roja Ramani	supremepokhrel1002@gmail.com
ACT-RIT-58	Alvas Institute Of Engineering and Technology	CSE	Venkatesh Bhatt	shreyasshimoga14@gmail.com
ACT-RIT-59	G.Madegowda Institute of Technology	MECH	Narayanaswamy K M	narayanaswamy_km@yahoo.co.in
ACT-RIT-60	NMAMIT	CSE	Saritha Shetty	shettysaritha1@nitte.edu.in
ACT-RIT-61	Malnad Collage of Engineering	CSE	Fathima Azra HY	azra69mce@gmail.com
ACT-RIT-62	Sri Siddhartha Academy of Higher Education	CSE	Hanumanthappa S	hanukit@gmail.com
ACT-RIT-63	NMAMIT	CSE	Chris Xavier Mathias	4nm19cs046@nmamit.in
ACT-RIT-65	Navkis College of Engineering	CSE	Prashantha S.J	prasi.sjp@gmail.com
ACT-RIT-66	Government Engineering College	ECE	Sinchana G S	msruas.sinchanags@gmail.com
ACT-RIT-67	Government Engineering College	ECE	Arpitha G A	arpithaga6@gmail.com
ACT-RIT-68	Vidyavardhaka College of Engineering	ISE	Dr. Rajini S	4vv19is047@vvce.ac.in
ACT-RIT-69	New Horizon college of Engineering	CSE	Srividhya Ganesan	1nh19cs102.meghnaasuti@gmail.com
ACT-RIT-70	Shri Madhwa Vadiraja Institute of Technology and Management	CSE	Aniketh Shenoy	anikethshenoy01@gmail.com
ACT-RIT-71	New Horizon college of Engineering	CSE	Anu Mohan M	muskans0307@gmail.com
ACT-RIT-72	C.V. Raman Global University	CV	Abhijeet Das	das.abhijeetlaltu1999@gmail.com
ACT-RIT-73	Shri Madhwa Vadiraja Institute of Technology and Management	CSE	Ranjani	sumana.19cs099@sode-edu.in
ACT-RIT-74	New Horizon college of Engineering	CSE	Srividhya Ganesan	1nh19cs125.keerthana@gmail.com
ACT-RIT-75	New Horizon college of Engineering	CSE	Ms. Yogitha	chethan1660@gmail.com
ACT-RIT-77	BGSIT Adichunchanagiri University	CSE	Nandini S R	shravyajm6@gmail.com
ACT-RIT-78	College of Engineering Trivandrum	ECE	Athira R	athirar6@gmail.com

ACT-RIT-79	Rajeev institute of Technology	CSE	Sushma D S	rjsush007@gmail.com
ACT-RIT-80	Siddaganga Intitution Of Technology	EEE	H.S.Sridhar	harshav.1si19ee017@gmail.com
ACT-RIT-82	Rajeev institute of Technology	CSE	Ankitha S	ankushekar44@gmail.com
ACT-RIT-83	Siddaganga Institute of Technology	EEE	Divyashree V P	1si19ee013@sit.ac.in
ACT-RIT-84	Rajeev institute of Technology	CSE	Shashikala M K	shashimk6@gmail.com
ACT-RIT-85	Rajeev institute of Technology	CSE	Shashikala M K	shashimk6@gmail.com
ACT-RIT-86	Rajeev institute of Technology	MATHS	Yuvaraja B K	somamosquite@gmail.com
ACT-RIT-87	BGSIT Adichunchanagiri University	CSE	Shwetha S N	tugajendra@gmail.com
ACT-RIT-88	Vishwakarma Institute of Technology	CSE	Sangita Lade	vishal.patil22@vit.edu
ACT-RIT-89	Kalpataru Institute of Technology	MBA	DeepthiAmith	deepthiamith7@gmail.com
ACT-RIT-90	College of Engineering Trivandrum	ECE	Aiswarya Lakshmi V	aiswaryalv94@gmail.com
ACT-RIT-92	Sri Siddhartha Academy of Higher Education	CSE	Purnima P S	poornimaps@ssit.edu.in
ACT-RIT-93	NMAMIT	CSE	Savitha Shetty	shettysavi1@nitte.edu.in
ACT-RIT-94	Rajeev institute of Technology	EEE	Nagendraprasad H.K	nagendraprasadhk@rithassan.ac.in
ACT-RIT-95	BGSIT Adichunchanagiri University	EEE	Namitha A R	bhanushreebhanushree68@gmail.com
ACT-RIT-97	Rajeev institute of Technology	CSE	Monika M M	monikammcse@rithassan.ac.in
ACT-RIT-98	Rajeev institute of Technology	CSE	Monika M M	monikammcse@rithassan.ac.in
ACT-RIT-99	Rajeev institute of Technology	MECH	Rajeev K. T.	rajeevkt.hsn@rithassan.ac.in
ACT-RIT-100	JSS Science and Technology University	CSE	Kavyashree K M	amruthaputti01@gmail.com
ACT-RIT-103	Vidyavardhaka College of Engineering	ISE	Kavyashree S	kavyashree.s@vvce.ac.in
ACT-RIT-104	Rajeev institute of Technology	CSE	Umme Sadiya	thinker457310@gmail.com
ACT-RIT-105	Rajeev institute of Technology	CSE	Umme Sadiya	spandana.yashu30@gmail.com
ACT-RIT-106	Rajeev institute of Technology	MECH	PAVAN KUMAR K. K	sufiyanshariff915@gmail.com
ACT-RIT-107	Rajeev institute of Technology	CSE	ASFIYA KHANAM	monikammcse@rithassan.ac.in
ACT-RIT-108	Rajeev institute of Technology	CSE	Aksha T S	ankushekar44@gmail.com
ACT-RIT-112	Rajeev institute of Technology	CSE	Bhuvana H S	ankushekar44@gmail.com
ACT-RIT-113	Navkis College of Engineering	CSE		bindushree11v@gmail.com
ACT-RIT-114	Rajeev institute of Technology	CSE	Ruchitha DN	ankushekar44@gmail.com
ACT-RIT-115	KLE Technological University	CV	Sandhya Jalgar	jalgarsandhya@gmail.com
ACT-RIT-116	Rajeev institute of Technology	CSE	Bhoomika S	sharathmn64@rithassan.ac.in
ACT-RIT-117	Rajeev institute of Technology	CSE	Megha H C	shashimk6@rithassan.ac.in
ACT-RIT-119	Vidyavardhaka College of Engineering	CSE	Ravi Kumar P	ravikumar43vr@gmail.com
ACT-RIT-120	MIT World Peace University	MBA	Kavita Ingale	suchita.jha@siib.ac.in
ACT-RIT-121	Vishwakarma Institute of Information Technology	IT	Aryaan Shaikh,	aryaan.21910912@viit.ac.in
ACT-RIT-122	Rajeev institute of Technology	CSE	Bhavana H J	nayanadevraju@gmail.com
ACT-RIT-123	Rajeev institute of Technology	CSE	AFRA BANU	nayanadevraju@gmail.com
ACT-RIT-124	New Horizon college of Engineering	CSE	Ashok K	appuprashanth792@gmail.com
ACT-RIT-125	BGSIT Adichunchanagiri University	CSE	Shashikala S V	monalisamgowda2001@gmail.com
ACT-RIT-129	Rajeev institute of Technology	ECE	Ravi L S	ravilingapatna@rithassan.ac.in

ACT-RIT-135	Rajeev institute of Technology	CSE	Sahana G C	sahanagc12@gmail.com
ACT-RIT-138	Rajeev institute of Technology	CSE	Sushma D S	rjsush007@gmail.com
ACT-RIT-139	Rajeev institute of Technology	CSE	Sushma D S	rjsush007@gmail.com
ACT-RIT-140	Rajeev institute of Technology	CSE	Sushma D S	rjsush007@gmail.com
ACT-RIT-141	Rajeev institute of Technology	CSE	Hanoca P	hanocaprem@rithassan.ac.in
ACT-RIT-145	Rajeev institute of Technology	ISE	Neha P	sukruthacs6@gmail.com
ACT-RIT-146	Rajeev institute of Technology	MBA	MOHAMMED MONISH	mohammedmonish313@gmail.com
ACT-RIT-148	BGSIT Adichunchanagiri University	ECE	PRAFULLA P S	anushamn23@gmail.com
ACT-RIT-150	Rajeev institute of Technology	ECE	LOKESHWARI H S	lokeshwarihs@rithassan.ac.in
ACT-RIT-152	Rajeev institute of Technology	EEE	Rashmi. L	rjyothika35@gmail.com
ACT-RIT-153	Rajeev institute of Technology	MBA	MURALIDAR NAYAK	nayak.muralidar@gmail.com
ACT-RIT-154	Rajeev institute of Technology	CSE	Arshika Irram	arshikairram35@gmail.com
ACT-RIT-155	Rajeev institute of Technology	ISE	Meghan Gowda T H	rathangowda071@gmail.com
ACT-RIT-157	Indira Gandhi Delhi Technical University for Women	ECE	Khushi Gandhi	nikita026btece19@igdtuw.ac.in
ACT-RIT-158	BGSIT Adichunchanagiri University	CSE	Pallavi N R	poojaranju10085@gmail.com
ACT-RIT-159	Rajeev institute of Technology	ECE	Rohith P	rohithgowda1985@rithassan.ac.in
ACT-RIT-160	Rajeev institute of Technology	EEE	Radhakrishna K.R	deepashreesl02@gmail.com
ACT-RIT-161	Indira Gandhi Delhi Technical University for Women	CSE	Priyanshi Gupta	gulafshaparveen687@gmail.com
ACT-RIT-162	Rajeev institute of Technology	ECE	Rohith P	rohithgowda1985@rithassan.ac.in
ACT-RIT-165	Rajeev institute of Technology	CSE	Sahana G C	sahanagc12@gmail.com
ACT-RIT-166	Delhi Technological University,	IT	Dinesh Kumar Vishwakarma	abrarzahoor_2k19it004@dtu.ac.in
ACT-RIT-167	Rajeev institute of Technology	ISE	AMEENA BEE	bhumikaspandu2@gmail.com
ACT-RIT-168	Rajeev institute of Technology	MBA	Vishwanath B R	br.vishwa@gmail.com
ACT-RIT-173	Rajeev institute of Technology	ECE	Manasa A	harshithagowdacr224@gmail.com
ACT-RIT-174	Rajeev institute of Technology	ECE	C.P. Sahana	sahanaphy@rithassan.ac.in
ACT-RIT-175	Rajeev institute of Technology	MBA	Bhavani B S	bhavanibs@rithassan.ac.in
ACT-RIT-176	Rajeev institute of Technology	ECE	Rekha M G	tayaibayubi.2000@gmail.com
ACT-RIT-177	Rajeev institute of Technology	ECE	Rekha M G	thejaswinijagadeesh@gmail.com
ACT-RIT-179	BGSIT Adichunchanagiri University	ECE	Anusha M N	preethilakshman607@gmail.com
ACT-RIT-180	Rajeev institute of Technology	ECE	Manasa A	manasasupriya89@gmail.com
ACT-RIT-181	Kalpataru Institute of Technology	MBA	Mitta Sekhara	mshekharagowd@gmail.com
ACT-RIT-182	Kalpataru Institute of Technology	MBA	Naveen Kumar T S	naveenkumarts.kit@gmail.com
ACT-RIT-183	JSPM's RSCOE	CSE	Koyel Roy	koyelr104@gmail.com
ACT-RIT-185	Rajeev institute of Technology	EEE	Dr.Radhakrishna K R	manugowda990093@gmail.com
ACT-RIT-187	Rajeev institute of Technology	ISE	Jyothi D	gowthamihsn200@gmail.com
ACT-RIT-188	Government Engineering College	CSE	Pooja D L	poojadl2002@gmail.com
ACT-RIT-189	BGSIT Adichunchanagiri University	CSE	Namitha A R	keerthanav1807@gmail.com
ACT-RIT-191	University Visvesvaraya College of Engineering,	MECH	Ashwini.V	ashwini.feb90@gmail.com
ACT-RIT-192	BGSIT Adichunchanagiri University	ECE	Tejaswini M R	tejaswinimr.ec@gmail.com
ACT-RIT-193	BGSIT Adichunchanagiri University	CSE	Manu YM	manuym@bgsit.ac.in
ACT-RIT-194	BGSIT Adichunchanagiri University	CSE	Manu YM	manuym@bgsit.ac.in

ACT-RIT-195	Rajeev institute of Technology	CSE	NAYANASHREE D	nayanadevraju@gmail.com
ACT-RIT-196	Rajeev institute of Technology	CSE	Ravi L.S	ravilingapatna@rithassan.ac.in
ACT-RIT-197	BGSIT Adichunchanagiri University	CSE	Shalet Benvin	gagankumar94497@gmail.com
ACT-RIT-199	Government Engineering College	ECE		praveensindagi@gmail.com
ACT-RIT-200	Rajeev institute of Technology	ECE	Ambika	ambika.hsn@rithassan.ac.in

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