



---

# ICACC-2021

---

Program Schedule



OCTOBER 21 TO 23, 2021  
RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY  
Kochi, Kerala

21<sup>st</sup> October 2021 (Thursday)

Venue: Rajagiri School of Engineering & Technology, Kakkanad

<https://www.rajagiritech.ac.in>

|                  |  |  |
|------------------|--|--|
| 09:00AM          | Registration                             |  |
| 9:30AM – 10:30AM | ICACC Inaugural Event                    |  |
| 11:00AM-11:15AM  | TEA BREAK                                |  |
| 11:15AM–12:15PM  | Conference Keynote 1                     |  |
| 12:15PM – 1:15PM | LUNCH                                    |  |
| 1:15PM – 2:15PM  | Conference Keynote 2                     |  |
| 2:15PM – 4:15PM  | Technical Sessions                       |  |
|                  | Venue: Multimedia Hall                   | Venue: Sunya Lab                                   |
|                  | <u>Data Analytics-1 (DA-1)</u><br>Chair: | <u>VLSI &amp; Embedded Systems (VES)</u><br>Chair: |
| 4:15PM – 4:30PM  | TEA BREAK                                |  |

22<sup>nd</sup> October 2021 (Friday) – ICACC-2021

Venue: Rajagiri School of Engineering & Technology (RSET), Kochi

<https://www.rajagiritech.ac.in>

|                   |   |   |
|-------------------|---|---|
| 9.00 AM           | Registration                                      |   |
| 9:30AM – 10:30AM  | Conference Keynote 3                              |   |
| 10:30AM – 10:45AM | TEA BREAK   |   |
| 10.45AM-12.30PM   | Technical Sessions                                |   |
|                   | Venue: Multimedia Hall                            | Venue: Sunya Lab  |
|                   | <a href="#">Data Analytics-2 (DA-2)</a><br>Chair: | <a href="#">Intelligent Electrical System (IES)</a><br>Chair: |
| 12:30PM – 1:30PM  | LUNCH   |   |
| 1:30 PM-2.30PM    | Conference Keynote 4                              |   |
| 2:30PM – 4:15PM   | Technical Sessions                                |   |
|                   | Venue: Multimedia Hall                            | Venue: Sunya Lab  |
|                   | <a href="#">Image Processing(IP)</a><br>Chair:    | <a href="#">Smart Communication (SC)</a><br>Chair:            |
| 4:15PM – 4:30PM   | TEA BREAK   |   |

23<sup>rd</sup> October 2021 (Saturday) – ICACC-2021

Venue: Rajagiri School of Engineering & Technology (RSET), Kochi

<https://www.rajagiritech.ac.in>

|                   |  |
|-------------------|--|
| 9.00 AM           | Registration                           |
| 9:30AM – 10:30AM  | Conference Keynote 5                   |
| 10:30AM – 10:45AM | TEA BREAK                              |
| 10.45AM-12.30PM   | Technical Sessions                     |
|                   | Venue: Multimedia Hall                 |
|                   | <u>Computer Security(CS)</u><br>Chair: |
| 12:30PM – 1:30PM  | LUNCH                                  |
| 1:30PM – 2:30PM   | Conference Keynote 6                   |
| 2:30PM – 2:45PM   | TEA BREAK                              |
| 2:45PM – 3:45PM   | Valedictory                            |

**DAY1: October 21<sup>st</sup> 2021**

**SESSION1**

**Data Analytics-1 (DA-1)**

| <b>Sl. No.</b> | <b>Paper ID</b> | <b>Title</b>   | <b>Author</b>  | <b>Venue</b>                                   |
|----------------|-----------------|--|--|--|
| 1              | ICACC_9         | A survey on deep learning architectures for effective crop data analytics  | Neenu Johnson, Dr. Santosh Kumar M.B. and Dr. Dhannia T                        | Time: 2.15PM -4:15PM<br>Venue: Multimedia Hall |
| 2              | ICACC_26        | Chess Moves Prediction using Deep Learning Neural Networks   | Hitanshu Panchal, Siddhant Mishra and Varsha Shrivastava                       |  |
| 3              | ICACC_29        | A Comparison on Instance Segmentation Models   | Paul Augustine, Nipun Anoob, Sanju Jacob Ebey, Praveen P and Prasad Prabudhan  |  |
| 4              | ICACC_32        | Comorbidity Based Risk Prediction System for ARDS in COVID-19 Patients   | Nitin Rajesh, Vysakh Thachileth Poullose, Umesh P.L. and Dr. Renu Mary Daniel  |  |
| 5              | ICACC_33        | Hyper Parameter Optimization of Convolutional Neural Networks for Breast Cancer Classification                                 | Sreekaal Kk and Jayakrushna Sahoo  |  |
| 6              | ICACC_21        | Learning to play football using Distributional Reinforcement learning and depthwise separable convolutional feature extraction | Aniruddha Datta, Swapnamoy Bhowmick and Kunal Kulkarni                         |  |
| 7              | ICACC_25        | Real Time Static and Dynamic Hand Gestures Cognizance for Human Computer Interaction   | Ajith Jacob, Monish Koshy and Nisha K. K                                       |  |
| 8              | ICACC_43        | E-Quarantine: Remote Real Time Monitoring of COVID-19 Patients   | Vijay Vinod, Muhsin Ahamed Fazal, Tom K Thomas, Toney K Jose and Amitha Mathew |  |

### VLSI and Embedded System (VES)

| Sl. No. | Paper ID  | Title   | Author  | Venue                                      |
|---------|-----------|---|---|--|
| 1       | ICACC_12  | Implementation of AES To Encrypt and Decrypt Speech Using LUT With Mux Gates    | Kezia Teresa Augustine and Purushotham U  | Time: 2:15PM -4:15 PM<br>Venue: Sunya Hall |
| 2       | ICACC_59  | Network-on-Chip Routers for Efficient Dataflow Computing: A Survey              | Ashish John, Josna Vr and Piyoosh Purushothaman Nair                            |  |
| 3       | ICACC_70  | Design Of ESD Protection Circuits For LNA Using 65-Nm CMOS Technology           | Lakshmi Nair, Karthigha Balamurugan and Jayakumar M                             |  |
| 4       | ICACC_82  | CMOS based variable gain LNA at V-Band  | Nallagatla Roopika, Moheth M, Sure Vinod, P M Sanjana and Karthigha Balamurugan |  |
| 5       | ICACC_93  | Freshness Estimator for Fruits and Vegetables Using MQ Sensors                  | Bala Naga Pranav S, Kaushek Kumar T R, Hari Prakash J, Sharan S and Ganesan M   |  |
| 6       | ICACC_102 | Two Speed Modified Radix-4 Booth Multiplier With Different Adder Configurations | Reshma V P and Adersh V R   |  |
| 7       | ICACC_129 | Memristor based Tunable Negative Group Delay Circuit                            | Chithra Palson, Sreelal R K, Dr. Deepthi Das Krishna and Babita Jose            |  |

**DAY2: October 22<sup>nd</sup> 2021**

**SESSION 2**

**Data Analytics-2 (DA-2)**

| <b>Sl. No.</b> | <b>Paper ID</b> | <b>Title</b>  | <b>Author</b>  | <b>Venue</b>                                     |
|----------------|-----------------|---|--|--|
| 1              | ICACC_47        | A novel forward filter feature selection algorithm based on Maximum Dual Interaction and Maximum Feature Relevance(MDIMFR) for Machine Learning | Anitha M A and Sherly K K  | Time: 10:45 AM-12:30PM<br>Venue: Multimedia Hall |
| 2              | ICACC_53        | Age and Spoof Detection from Fingerprints using Transfer Learning   | Sonal Ayyappan, Navaneeth Asok and Nandu Shaji                               |  |
| 3              | ICACC_69        | Semantic Malayalam Dialogue System For COVID-19 Question Answering Using Word Embedding And Cosine Similarity                                   | Liji S K and Muhamed Ilyas P   |  |
| 4              | ICACC_91        | Attention Span Detection for Online Lectures  | V. Karthikraj, Senthil Thanneermalai, Thirumalainambi Yadav and Varsha Patil |  |
| 5              | ICACC_108       | Coreference Resolution for Ambiguous Pronoun with BERT and MLP  | Rohan Nair, Vadla Niranjan Vara Prasad, Sreenadh A and Jyothisha J. Nair     |  |
| 6              | ICACC_131       | Generating Text to Realistic Image using Generative Adversarial Network   | Safa Hassan Ali K A and Chinchu Krishna S                                    |  |
| 7              | ICACC_133       | AI-Farm: A crop recommendation system   | Abhinav Sharma, Muskaan Bhargava and Akshay Khanna                           |  |
| 8              | ICACC_81        | Flood Detection Using Deep Learning   | Vineeth V and Dr. Neeba E A  |  |

### Intelligent Electrical System (IES)

| Sl. No. | Paper ID  | Title   | Author   | Venue                                       |
|---------|-----------|---|--|---|
| 1       | ICACC_3   | A Novel Self Maintained Solar Panel Design and Development                    | V Dega Rajaji, A Venkata Siva Prasad and Gondu Vykunta Rao   | Time: 10:45 AM-12:30PM<br>Venue: Sunya Hall |
| 2       | ICACC_35  | Robust Attitude Control of Launch Vehicle using H infinity Controller         | Keziah Elizabeth George, Angel Mary, Alka Mariyam Varghese, Akhil Santhosh, Meera Sivadas and Ambili Mohan |   |
| 3       | ICACC_103 | Optimized Prosumer Consortium Model – Analysis                                | Jithin K. Jose and M. R. Sindhu  |   |
| 4       | ICACC_123 | A Review on Battery Management system and its Application in Electric vehicle | Smaranika Mishra, Sarat Chandra Swain and Rajat Kumar Samantaray   |   |

### SESSION 3

#### Image Processing (IP)

| Sl. No. | Paper ID  | Title  | Author   | Venue  |
|---------|-----------|--|--|--|
| 1       | ICACC_112 | Identification of Drowning Victims in Freshwater Bodies using Drift Prediction and Image Processing based on Deep Learning | Anjana Unnikrishnan, Anju M Vinny, P R Anusha and A T Roshni | Time: 2:30 PM-4:15PM<br>Venue: Multimedia Hall |
| 2       | ICACC_113 | Real-time Vision-based Bangla Sign Language Detection using Convolutional Neural Network                                   | Riyad Bin Rafiq, S M Azizul Hakim and Thasina Tabashum       |  |



|   |           |   |  |  |
|---|-----------|---|--|--|
| 3 | ICACC_125 | Object Classification in Underwater SONAR Images using Transfer Learning Based Ensembled Model                | Divyabarathi G, Shailesh S and Judy M.V  |  |
| 4 | ICACC_87  | Various Approaches in Plant Species Identification and Plant Disease Detection Using Digital Images of Leaves | Annie Sonia and Sherly K.K   |  |
| 5 | ICACC_90  | Copy-move Image Forgery Localization Using Deep Feature Pyramidal Network                                     | Sabeena M, Lizy Abraham and Sreelekshmi P R  |  |
| 6 | ICACC_105 | Comparison Of ALEXNET And VGG16 For Analysis Of Plant Leaf Disease  | Aksa Christopher, Aleena Jaison, Arun Tomy, Dayana Mariya Tomy and Harsha A                    |  |
| 7 | ICACC_17  | YOLOv5 based Open-Source UAV for human detection during Search And Rescue (SAR)                               | Sruthi M S, Manal Jaleel Poovathingal, Nandana V N, Lakshmi S, Mohamed Samshad and Sudeesh V S |  |

### Smart Communication (SC)

| Sl. No. | Paper ID  | Title   | Author   | Venue                                     |
|---------|-----------|---|--|---|
| 1       | ICACC_118 | Garbage Collecting Robot  | Nitheesh Kurian, Aleena Rose Biju, Alisha N A, Akhila Assis and Amrutha Dhanadas | Time: 2:30 PM-4:15PM<br>Venue: Sunya Hall |
| 2       | ICACC_7   | LORA Based Wireless Network For Disaster Rescue Operation                                 | Ann Jacob, Afaf Mohamed, Aishwarya Vithayathil and Chinju Merin Raju             |   |
| 3       | ICACC_19  | Design of a low power and high-speed Viterbi decoder using T-algorithm with normalization | Surya Rajakumar, Karthi Balasubramanian and Yamuna B                             |   |
| 4       | ICACC_23  | Vulnerability Analysis and Testing of Wireless Networks through Warstorming               | Mohit Taneja, Shrey Bhiwapurkar, Nikita Mohanty and Budhaditya Bhattacharyya     |   |

|   |           |  |   |  |
|---|-----------|--|---|--|
| 5 | ICACC_27  | Design of a Fast Chase Algorithm based High Speed Turbo Product Code Decoder                   | Hari Kishore J, Yamuna B and Karthi Balasubramanian   |  |
| 6 | ICACC_40  | A Low Power Hard Decision Decoder for BCH codes  | Pranitha Garlapati, Yamuna B and Karthi Balasubramanian   |  |
| 7 | ICACC_128 | Implementation of Low Complexity Signal Tracking Loop of a GPS Receiver Using CORDIC Algorithm | Rohan Mathew George, Swetha Shajee Dominic, Vishnu Vijay, Sneha Joe, Riya Mary Joseph, Sherin Sunil Jose, Simi Zerine Sleeba and Arun Ashok |  |
| 8 | ICACC_31  | Saline Solution Based Miniaturized Low Frequency Dipole for UAV based River Monitoring Systems | Boopathi Vanavarayan S, Akash S, Raghunath B, Aravind S and Sabarish Narayanan B  |  |

**DAY3: October 23<sup>rd</sup> 2021**

**SESSION 4**

**Computer Security (CS)**

| <b>Sl. No.</b> | <b>Paper ID</b> | <b>Title</b>  | <b>Author</b>   | <b>Venue</b>                                    |
|----------------|-----------------|---|---|---|
| 1              | ICACC_8         | Improvement of security in Multi-Biometric Cryptosystem by Modulus Fuzzy Vault Algorithm    | R Sreemol, M B Santosh Kumar and A Sreekumar  | Time: 10:45AM-12:30PM<br>Venue: Multimedia Hall |
| 2              | ICACC_49        | A Study on Location Based Services and TTP based Privacy Preserving Techniques              | Gagandeep Kaur and Ruchika Gupta  |   |
| 3              | ICACC_63        | Analysing Gender And Age Aspects Of Cyberbullying Through Online Social Media               | Mariya Raphel, Parvathi P J, Rohan J Thevara, Rizwana Yasmin Hashim and Deepasree Varma P |   |
| 4              | ICACC_96        | Securing Data Workflows: An Insight into Cloud Security                                     | Anusha Gopi Krishna, Divyansh Singh Rathore, Nidhi Sanjay Singh and Anitha H M            |   |
| 5              | ICACC_18        | Impact of Machine Learning Algorithms in Intrusion Detection Systems for Internet of Things | Jinsi Jose, Deepa Jose, Karna Srinivasa and Justin Janz                                   |   |
| 6              | ICACC_55        | Image Encryption using Chaotic Map and Related Analysis                                     | Diya Achu Pradeep and Harsha A  |   |
| 7              | ICACC_119       | Advanced 256-BIT AES Encryption With Plaintext Partitioning                                 | Surabhi P R and Meenu T V   |   |