



---

# ICACC-2021

---

Program Schedule



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

21<sup>st</sup> October 2021 (Thursday) – ICACC-2021

Venue: Rajagiri School of Engineering & Technology, Kakkanad

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

09:00AM	Registration	
9:30AM – 10:30AM	ICACC Inaugural Event	
10.30AM- 10:45AM	TEA BREAK	
10:45AM–12:00PM	Conference Keynote 1 Dr. V.Murugesan Group Director at Vikram Sarabhai Space Centre, ISRO Topic : “Reliability analysis of space missions”	
12:00PM –1:00PM	LUNCH	
1:00PM – 2:00PM	Conference Keynote 2 Dr. DONG-HWAN PARK Chief Researcher, Gyeongbuk Hybrid Technology Institute, South Korea Topic : “4th Industrial Revolution and Smart Processing Technology”	
2:00PM – 4:00PM	Technical Sessions	
	Venue: Multimedia Hall	Venue: Sunya Lab
	<a href="#">Data Analytics-1 (DA-1)</a> Chair: Dr. Daleesha M Viswanathan	<a href="#">VLSI &amp; Embedded Systems (VES)</a> Chair: Dr. Nalesh S
4:00PM – 4:15PM	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 Dr. Peter Strazdins ANU College of Engineering, AUSTRALIA Topic : “The Sparse Grid Combination Technique for Resilient Extreme-scale Simulations”	
10:30AM – 10:45AM	TEA BREAK	
10:45AM - 12.00PM	Technical Sessions	
	Venue: Multimedia Hall	Venue: Sunya Lab
	Data Analytics-2 (DA-2) Chair: Dr. Anand Hareendran S.	<a href="#">Intelligent Electrical System (IES)</a> Chair: Dr. Ciji Pearl Kurian
12:00PM – 1:00PM	LUNCH	
1:00PM – 2:00PM	Conference Keynote 4 Prof. Dr. Madhu Mutyam IIT , Madras Topic : "Unified Memory in Heterogeneous Computing Systems: Opportunities and Challenges"	
2:00 PM -3.00PM	Conference Keynote 5 Prof. Abderrahim BENSLIMANE Professor of Computer Science, University of Avignon, France Vice Dean of International Relations at the UFR STS Topic : “Monitoring IoT/IoV networks: Optimization and Security”	
2:45PM – 4:15PM	Technical Sessions	
	Venue: Multimedia Hall	Venue: Sunya Lab
	<a href="#">Image Processing(IP)</a> Chair: Dr. Binsu Kovoov	<a href="#">Smart Communication (SC)</a> Chair: Dr. Deepti Das Krishna
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 6 Dr. Karthik Raman IIT, Madras Topic : "Science at the interface of computing and biology"
10:30AM – 10:45AM	TEA BREAK
10.45AM - 1.00PM	Technical Sessions
	Venue: Multimedia Hall
	<a href="#">Computer Security(CS)</a> Chair: Dr Reshmi P. S
1:00PM – 2:00PM	LUNCH
2:00PM – 3:00PM	Valedictory
3:00PM – 3:15PM	TEA BREAK

**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 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 -4:15PM Venue: Sunya Hall
2	ICACC_59	Network-on-Chip Routers for Efficient Dataflow Computing: A Survey	Ashish John, Josna Vr and Piyooosh 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. Deepti 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 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 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	



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

**SESSION 3**

**Image Processing (IP)**

<b>Sl. No.</b>	<b>Paper ID</b>	<b>Title</b>	<b>Author</b>	<b>Venue</b>
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 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 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 Sreeba 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 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	