



Goa University

Electronics Discipline, School Of Physical & Applied Sciences

Report on

Second International Conference on Advances in Smart Sensors, Signal Processing and Communication Technology

(ICASSCT-2024)

Title of the event	Second International Conference on Advances in Smart Sensors, Signal Processing and Communication Technology (ICASSCT-2024)
Date and time	22 – 23 rd March 2024
Mode	Hybrid
Department/School/Directorate/Section	Electronics Discipline, School Of Physical And Applied Sciences (SPAS), Goa University
Publishing Partner	AIP Publishing (SCOPUS)
Sponsor	DST
Committee	<p><u>Patron:</u> Prof. Harilal B. Menon, Vice Chancellor, Goa University, Goa, India</p> <p><u>Convener:</u> Prof. Rajendra S. Gad, Goa University, Goa, India</p> <p><u>Coordinator:</u> Prof. Jivan S. Parab, Goa University, Goa, India</p> <p><u>Organizing Secretaries</u> Dr. Narayan Vetrekar, Goa University, Goa, India Dr. Marlon Sequeira, Goa University, Goa, India Dr. Aniketh Gaonkar, Goa University, Goa, India</p>
Research Papers (Received)	250
Research Papers (Accepted, Registered & Presented)	124
Keynotes	<ol style="list-style-type: none">1. Prof. (Dr.) Suresh Gosavi, Hon'ble Vice-Chancellor, Savitribai Phule Pune University (SPPU), Pune, India or of Electronics, SPAS2. Prof. (Dr.) Rajnish K Kamat, Vice-Chancellor, Dr. Homi Bhabha State University, Mumbai

	<p>3. Dr. Carlos Viegas, University of Coimbra, PORTUGAL</p> <p>4. Dr. Pankaj Wasnik, Assoc. Director, Sony Research India, Media Analysis Lab, Bangalore, India</p>
<p>The objectives / description of the activity (50 words)</p>	<p>A major objective of the ICASSCT 2024 conference is to drive innovation in every aspect of advancements in sensors, signal processing and communications. The conference follows extensive blind review process and selects best of the papers for the presentation which includes technical papers, tutorials, workshops and industry sessions designed specifically to advance technologies, systems and infrastructure. The conference aims to pursue the progression from communication and information theory through to the implementation, evaluation and performance improvement of practical communication systems using signal processing technology.</p> <p>The ICASSCT Conference series aims for a great gathering of both industrial and academic professional from across the world in the fields of Data Science and Advanced Computing. It provides a major forum for the exchange of information among practicing professionals from all over the globe in the areas of greater importance such as data science and computing.</p> <p><u>Conference Tracks</u></p> <ul style="list-style-type: none"> ◆ Track 1: Smart Sensors ◆ Track 2: Signal Processing ◆ Track 3: Communication Theory and Systems ◆ Track 4: Electronics Technology ◆ Track 5: Electrical Engineering ◆ Track 6: Computer Science and Engineering ◆ Track 7: Materials Science and Engineering

**Copy of Flyer of the event
uploaded on the Goa University
Website**



URL of the event

<https://icasst.com/>

Social Media posts and links:

Website

<https://icasst.com/>

Instagram Link

<https://www.instagram.com/goauniversityofficial/p/C4zNSbjAx2/>

Facebook link

<https://www.facebook.com/100072352675644/posts/icasst-2024-go-a-university-wwwicasstcomthe-second-international-conference-on-/403568365398249/>

Photos (5)

Enclosed

Feedback

The overall feedback from the participants was good.

**Benefit/Key outcome of the event
in terms of
learning/skills/knowledge**

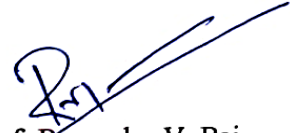
- The ICASSCT Conference series is a great gathering of both industrial and academic professional from across the world in the fields of Data Science and Advanced Computing.
- It acts as a major forum for the exchange of information among practicing professionals from all over the globe in the areas of greater importance such as data science and computing, Smart sensors, Signal Processing, Electronics Technology, etc.
- All participants and researchers got an opportunity to interact with different researchers /PhD scholars across and also to learn and explore the different ongoing research through presentations.
- In the current series there were four keynote speakers who guided the participants to explore the upcoming research areas and took them on the journey of following domains.

- Nanoscale Smart Sensors Technology Trends in Biomedical Application
- Empowering Sustainable Development through Advanced Sensor Technology and Data Science: A Path towards a Happy Community
- From Robotics to AI: Leveraging Scientific Breakthroughs to Promote Forestry Operations and Sustainability
- Stepping Beyond Single Modality.



Prof. Jivan S. Parab
Coordinator
Vice-Dean (Academic),
SPAS

Date:



Prof. Ramesh . V. Pai
Dean, SPAS



Seal

1. Flyers

Second International Conference on Advances in Smart Sensor, Signal Processing and Communication Technology 2024 (ICASSCT - 2024)

22 - 23, March 2024 | Goa University, Goa, India | www.icasst.com

Publication Partner
AIP Conference Proceedings

Call for
Papers

HYBRID MODE

ICASSCT 2024 (Second Edition)

The conference aims to pursue the progression from communication and information theory through to the implementation, evaluation and performance improvement of practical communication systems using signal processing technology. ICASSCT will be an excellent forum for presenting research into topics ranging from those of the physical layer to the application layer. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends and concerns as well as practical challenges encountered and solutions adopted in the fields of sensors and signal processing in communication systems. All aspects of the protocols and processes required for the future communication systems to operate better and the applications to utilize the full potential offered by the current and the emerging networking infrastructure are also encompassed. ICASSCT is organized by the Electronics Programme, School of Physical and Applied Sciences, Goa University, Goa.

Call for papers

ICASSCT 2024 invites full length original research contributions from science, engineering professionals from industries, R&D organizations, academic institutions, government departments and research scholars from across the world working with sensors, signal processing and communication systems. Full length original research contributions and review articles not exceeding twelve pages in single column format shall be submitted. The extended literature papers will not be accepted. The manuscript should contribute original research ideas, developmental ideas, analysis, findings, results, etc in the fields closely related to the conference topics listed below. The manuscript should not have been published in any journals/magazines or conference proceedings and not under review in any of them. Further the manuscript should contain the name of the corresponding author with e-mail id and affiliation of all authors.

Please send your full length paper in AIP Conference Proceedings manuscript template (pdf format) to icasst@unigoa.ac.in.

Topics (but NOT limited to)

Smart Sensors

Big Data
Visualization
Sensor Data Fusion
Sensor Networks
Wireless and Contactless sensors
Assisted Living for the Aging Population
Medical and Biomedical Applications
Commercial Development
Energy and the Smart Grid
Energy Harvesting for Sensors
Industrial Applications
Internet of Things
Sensors for Aerospace
Non-Destructive Evaluation
Remote Sensing
Robotics and Automation
Smart Agriculture
Smart Buildings Smart Cities and Communities
Sensors for Smart Mobility
MEMS and Nano-Sensors
Novel Sensing Technologies
Flexible and Wearable Sensors
Memristive Sensors

Signal Processing

Image and video signal processing
MultiSpectral Imaging
Hyperspectral Imaging
Biomedical Imaging
Multimedia applications
DSP algorithms and architectures
Speech and audio processing
Biomedical applications

Engineering and Technology

Electrical Engineering
Electronics Engineering
Computer Science and Engineering
Information Technology
Electronics and Instrumentation Engineering
Artificial Intelligence
Control Systems Engineering
Mechatronics

Language identification
Machine learning, pattern analysis, and classification
Cognitive radio
Large dimensional signal processing
Sparse signal processing
Graph signal processing
Applications in astronomy/astrophysics
Communication Technologies

Communication Theory & Systems

Coding theory
Wireless communications
RF and microwave communications
Satellite communications
Optical communications
Silicon Photonics
Cognitive radio
Energy harvesting and green communications
Machine learning for communications
5G and beyond communication systems
Machine learning for communications
Edge communications
Quantum communications
5G / next-generation networks
Wireless and wireline networks
Optical networks and systems
Sensor and ad hoc networks
Complex networks
Cyber-physical systems / IoT
Biological networks
Social networks
Decentralized trust networks
Data center and cloud networks
Data center and cloud networks
Networks and services management
Performance analysis

Materials Science and Engineering

Advanced materials
Sustainable materials
Composite materials
Biomaterials
Nano materials
Thin film technology
Structural materials
3D materials
Optical/Electronic/Magnetic materials
Chemical materials

Publications



with all the accepted papers will be published
in the following AIP Conference Series

AIP Conference Proceedings

A Conference Proceedings Journal
Published by: American Institute of Physics

Indexing and Abstracting

The book of proceedings of ICASSCT 2024 will be INDEXED in

Conference Proceedings Citation Index – Science (CPCI-S)
(Thomson Reuters, Web of Science)
EI - Compendex
Scopus
Inspec
Chemical Abstracts Service
INIS (International Nuclear Information System)
NASA Astrophysics Data System
SPIRES
VINITI Abstracts Journal (Referativnyi Zhurnal)

Important dates

Last date for paper submission	05, March 2024 (Open)
Notification of acceptance	10, March 2024
Registration deadline	15, March 2024
Camera Ready Paper (CRP) submission	16, March 2024
Release of Conference schedule	16, March 2024
Conference date(s)	22 - 23, March 2024

ICASSCT 2021 - Publications (First Edition)

IOP: Journal of Physics Conference Series, Volume 1921, 2021.
(Indexed in Scopus)

Contact details

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Website
www.icasst.com

Registration fee

	Indian authors (in Rs)	Foreign authors (in USD)
Graduate Students	₹ 12,000	\$ 250
Research Scholars / Academicians	₹ 12,000	\$ 250
Industry and Others	₹ 14,000	\$ 250
Poster (without publication)	₹ 3,500	\$ 100



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Goa University, Goa

Publication Partner



CMS Partner

DILIGENTEC SOLUTIONS


International Center
Goa, INDIA

2. Photos

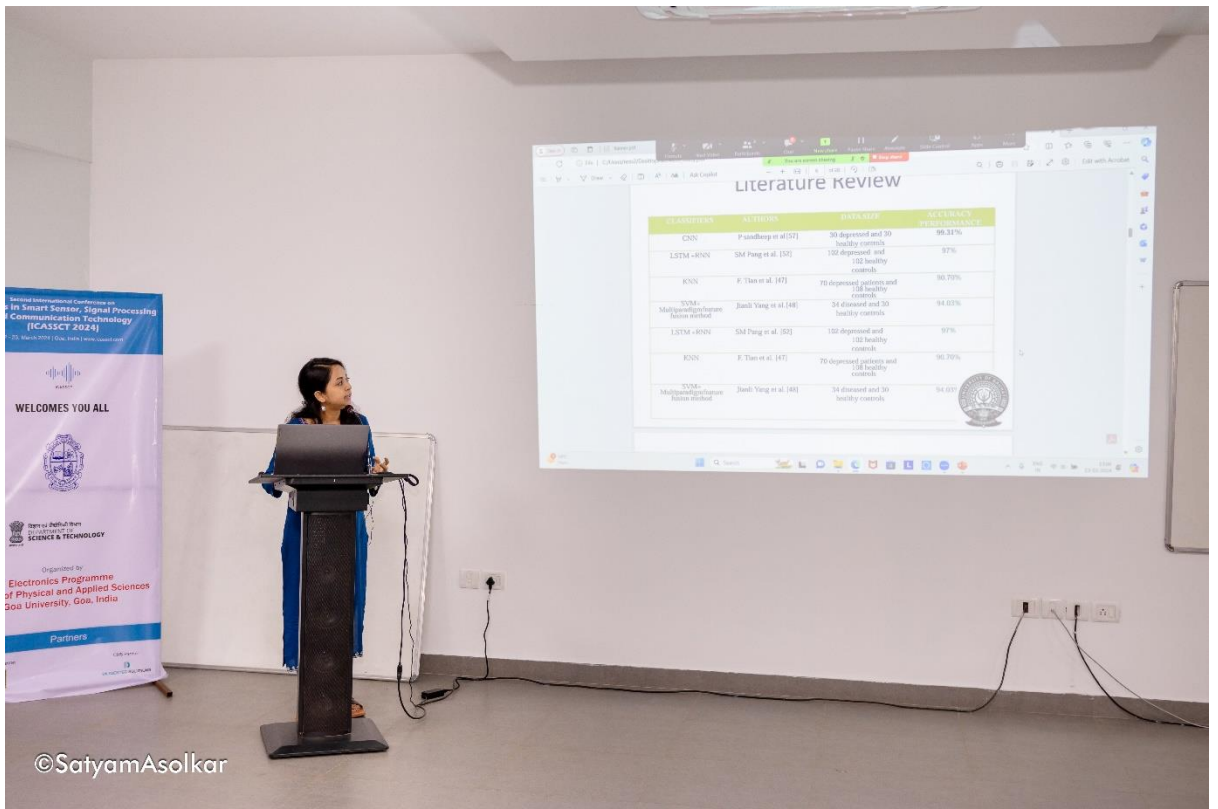


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Goa University, Goa, India











3. Program Schedule

**Second International Conference on
Advances in Smart Sensor, Signal Processing & Communication Technology (ICASSCT 2024)**

22-23, March 2024 | Goa, India | <https://icassct.com/>
Venue: Goa University, Goa India (<https://www.unigoa.ac.in/>)

Program Schedule

Date	Time (IST)	Event	Chairperson/Keynote/Chair	Online Link	
22.03.2024 FRIDAY	09.30 am - 10.00 am	Inaugural Function		Zoom11 Day 1: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09	
	10.00 am - 10.15 am	Tea Break			
	10.15 am - 11.00 am	Keynote 01		Zoom11 Day 1: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09	
	11.00 am - 01.00 pm	Total Papers – 8x4= 32	Session 01	Session Chair	Zoom11 Day 1: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09
			Session 02	Session Chair	Zoom12 Day 1: https://zoom.us/j/98717070578?pwd=VFUzbVorTmsxUUo5ZTISLzJPcldLdz09
			Session 03	Session Chair	Zoom13 Day 1: https://zoom.us/j/99847067449?pwd=UW5RcUVIU0w0bkI3K3FFd0R2UH14QT09
			Session 04	Session Chair	Zoom14 Day 1: https://zoom.us/j/96588618246?pwd=b2h1TUVLY0JwSzR6d3lwSmxHaWFxZz09
	01.00 pm - 02.00 pm	Lunch			
	02.00 pm - 02.45 pm	Keynote 02	Session Chair	Zoom11 Day 1: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09	
	02.45 pm - 04.00 pm		Session 05	Session Chair	Zoom11 Day 1: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09
			Session 06	Session Chair	Zoom12 Day 1: https://zoom.us/j/98717070578?pwd=VFUzbVorTmsxUUo5ZTISLzJPcldLdz09
			Session 07	Session Chair	Zoom13 Day 1: https://zoom.us/j/99847067449?pwd=UW5RcUVIU0w0bkI3K3FFd0R2UH14QT09
			Session 08	Session Chair	Zoom14 Day 1: https://zoom.us/j/96588618246?pwd=b2h1TUVLY0JwSzR6d3lwSmxHaWFxZz09
	04.00 pm - 04.15 pm	Tea Break			
	04.15 pm - 05.45 pm		Session 09	Session Chair	Zoom11 Day 1: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09
			Session 10	Session Chair	Zoom12 Day 1: https://zoom.us/j/98717070578?pwd=VFUzbVorTmsxUUo5ZTISLzJPcldLdz09
Session 11			Session Chair	Zoom13 Day 1: https://zoom.us/j/99847067449?pwd=UW5RcUVIU0w0bkI3K3FFd0R2UH14QT09	
Session 12			Session Chair	Zoom14 Day 1: https://zoom.us/j/96588618246?pwd=b2h1TUVLY0JwSzR6d3lwSmxHaWFxZz09	
07.00 pm - 10.30 pm	Conference Dinner				
23.03.2024 SATURDAY	09.30 am - 10.15 am	Keynote 03		Zoom11 Day 2: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09	
	10.15 am - 10.30 am	Tea Break			
	10.30 am - 01.00 pm		Session 13	Session Chair	Zoom11 Day 2: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09
			Session 14	Session Chair	Zoom12 Day 2: https://zoom.us/j/98717070578?pwd=VFUzbVorTmsxUUo5ZTISLzJPcldLdz09
			Session 15	Session Chair	Zoom13 Day 2: https://zoom.us/j/99847067449?pwd=UW5RcUVIU0w0bkI3K3FFd0R2UH14QT09
			Session 16	Session Chair	Zoom14 Day 2: https://zoom.us/j/96588618246?pwd=b2h1TUVLY0JwSzR6d3lwSmxHaWFxZz09
	01.00 pm – 02.00 pm	Lunch			
	02.00 pm – 02.45 pm	Keynote 04			
	2.45 pm - 04.15 pm		Session 17	Session Chair	Zoom11 Day 2: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09
			Session 18	Session Chair	Zoom12 Day 2: https://zoom.us/j/98717070578?pwd=VFUzbVorTmsxUUo5ZTISLzJPcldLdz09
Session 19			Session Chair	Zoom13 Day 2: https://zoom.us/j/99847067449?pwd=UW5RcUVIU0w0bkI3K3FFd0R2UH14QT09	
Session 20			Session Chair	Zoom14 Day 2: https://zoom.us/j/96588618246?pwd=b2h1TUVLY0JwSzR6d3lwSmxHaWFxZz09	
04.15 pm - 04.30 pm	Tea Break				
04.30 pm – 5.00 pm	Valedictory Function		Zoom11 Day 2: https://zoom.us/j/96081417546?pwd=RVNpaFiteVJ3WGpaeUZrVksrWVJNZz09		

EC-Electronics & Communication Engineering; CS-Computer Science & Engineering; EE-Electrical & Electronics Engineering; PH-Applied Physics;
MA – Applied Mathematics; ME- Applied Mechanical Engineering.

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Program Schedule

Online Link Details:

Day	Day	Online Link	Zoom Link	Code
1	Inaugural, Keynote 1, Keynote 2, Session 1, Session 5, Session 9,	Zoom11 Day 1:	https://zoom.us/j/96081417546?pwd=RVNpaFlteVJ3WGpaeUZrVksrWVJNZz09	Meeting ID: 960 8141 7546, Passcode: 443073
	Session 2, Session 6, Session 10	Zoom12 Day 1:	https://zoom.us/j/98717070578?pwd=VFUzbVorTmsxUUo5ZTISLzJPcldLdz09	Meeting ID: 987 1707 0578, Passcode: 188074
	Session 3, Session 7, Session 11	Zoom13 Day 1:	https://zoom.us/j/99847067449?pwd=UW5RcUVIU0w0bkI3K3FFd0R2UHI4QT09	Meeting ID: 998 4706 7449, Passcode: 518999
	Session 4, Session 8, Session 12	Zoom14 Day 1:	https://zoom.us/j/96588618246?pwd=b2h1TUVLY0JwSzR6d3lwSmxHaWFxZz09	Meeting ID: 965 8861 8246, Passcode: 729788
2	Keynote 3, Session 13, Session 17, Valedictory	Zoom11 Day 2:	https://zoom.us/j/96081417546?pwd=RVNpaFlteVJ3WGpaeUZrVksrWVJNZz09	Meeting ID: 960 8141 7546, Passcode: 443073
	Session 14, Session 18	Zoom12 Day 2:	https://zoom.us/j/98717070578?pwd=VFUzbVorTmsxUUo5ZTISLzJPcldLdz09	Meeting ID: 987 1707 0578, Passcode: 188074
	Session 15, Session 19	Zoom13 Day 2:	https://zoom.us/j/99847067449?pwd=UW5RcUVIU0w0bkI3K3FFd0R2UHI4QT09	Meeting ID: 998 4706 7449, Passcode: 518999
	Session 16, Session 20	Zoom14 Day 2:	https://zoom.us/j/96588618246?pwd=b2h1TUVLY0JwSzR6d3lwSmxHaWFxZz09	Meeting ID: 965 8861 8246, Passcode: 729788

Note:

1. Start time given above indicates Indian Standard Time (IST).
2. The PowerPoint presentation is a mode of presentation.
3. Presentation will be conducted using Zoom Meet for 15 minutes including Q & A.
4. If any problem connecting to session, please text to the respective session In-Charges (Or) ICASSCT Whatsapp group during presentation date(s).
5. Dummy Zoom link will be generated for testing the online platform for trial.

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Program Schedule

Session 01 : CS-01

VENUE: Hall A
Date: 22/03/2024 | Time: 11.00 am – 01.00 pm

Time	Paper ID	Paper Title
11.00 am	SCT 2037	Dimension Identification and Classification of Industrial Parts for Enhanced Manufacturing Efficiency
11.16 am	SCT 2044	Enhancing Privacy and Security in Android Devices through Federated Learning for Detecting Malware
11.31 am	SCT 5081	Early Diagnosis of Cognitive Impairment and Neurological Disorders T1, T2, T1C+ MRI using Transfer Learning
11.46 am	SCT 1020	Text Classification using SVM
12.01 pm	SCT 1027	Text Summarization using Semantic models
12.16 pm	SCT 1036	An Intelligence-Sustainable System Preservation of Agrobiodiversity Hybrid Crop Seeds Prediction and Smart Farming Using Deep Learning-Optimized Techniques and Augmented Reality in Computer Vision
12.31 pm	SCT 1049	Intelligent Rainfall Forecasting Model using Serial Cascaded Networks
12.46 pm	SCT 1050	ES2024: A Novel Dataset Creation on Educational Summaries

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Program Schedule

Session 02 : EC-01

VENUE: Hall B
Date: 22/03/2024 | Time: 11.00 am – 01.00 pm

Time	Paper ID	Paper Title
11.00 am	SCT 1023	Analytical and numerical analysis of high-g acceleration threshold sensor
11.16 am	SCT 1032	IoMT-Based Health Monitoring and Medication System for Elderly People
11.31 am	SCT 1064	Enhancing 5G Technology with Polar Codes: A Comprehensive Investigation and Performance Evaluation
11.46 am	SCT 1069	Enhancing TB Bacteria Detection Efficiency: A Pre-processing Step for Small Image Patch Classification Models
12.01 pm	SCT 2065	Hexagonal Microstrip Patch Antenna for Wearable Applications
12.16 pm	SCT 3084	Image-based Explainable Predictive Maintenance of Rotating Machines using Deep Learning and LRP
12.31 pm	SCT 4045	Antibiotic Susceptibility Testing with Automated Zone Size Measurement
12.46 pm	SCT 5089	Graphene FET Gate-Biased Mid-Frequency Oscillator for IoT Applications

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Program Schedule

Session 03 : PH-01

VENUE: Hall C
Date: 22/03/2024 | Time: 11.00 am – 01.00 pm

Time	Paper ID	Paper Title
11.00 am	SCT 1093	Towards exploring RGB color channels of visible face images to band for gender classification
11.16 am	SCT 1097	Elucidating the Chemical Mechanisms of Dopamine Metabolite-Induced Alpha-Synuclein Oligomer Formation: Insights into Parkinson's Disease Pathogenesis
11.31 am	SCT 2041	Experimental Tensile Strength Evolution on Post Cured Hybrid Functionally Graded Glass fiber Specimens
11.46 am	SCT 4009	Gender classification across different age groups: An Extensive Benchmark Evaluation
12.01 pm	SCT 1006	Adsorption of Colonal Bordeaux-B Through Commercial Adsorbent
12.16 pm	SCT 1083	Study of Frequency Upconversion Luminescence Property in Triply Yb ³⁺ /Tm ³⁺ /Ho ³⁺ Doped Tungsten Tellurite Glasses
12.31 pm	SCT 1095	Study of the structural behaviour of BiMnO ₃ modified by Nd ³⁺ substitution
12.46 pm	SCT 3086	1D-Convolution Neural Network (CNN) based EEG signal classification model for Schizophrenia detection

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Program Schedule

Session 04 : CS-04

VENUE: Hall D
Date: 22/03/2024 | Time: 11.00 am – 01.00 pm

Time	Paper ID	Paper Title
11.00 am	SCT 2062	Enhancing Service Excellence in Vehicular Ad Hoc Networks (VANETs)
11.16 am	SCT 2067	Deep Learning for Near-Infrared Iris Recognition
11.31 am	SCT 2083	Predictive Performance in Automotive Industries
11.46 am	SCT 2089	Increased hair-fall prediction and prevention based on dietary habits using machine learning
12.01 pm	SCT 2094	Deploying Physiotherapy Through Emotion Detection Using KNN & CNN Algorithm
12.16 pm	SCT 3006	A Secure and Energy Efficient Wireless Sensor Networks Framework
12.31 pm	SCT 3008	Identify Black-Hole and Wormhole Attacks at Early Stage and Eliminate the Malicious Node from the Network
12.46 pm	SCT 3012	Liver Cirrhosis Prediction of Patients from Nort-East Andhra Pradesh

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Program Schedule

Session 05: CS-02

VENUE: Hall A
Date: 22/03/2024 | Time: 02.45 pm – 03.45 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 1056	Evaluating CUDA-Optimized YOLOv8 vs. YOLOv5 for Object Detection
03.01 pm	SCT 1063	ARPhysics: Enhancing Physics Education through Augmented Reality Visualisation
03.16 pm	SCT 1075	Secure Cloud Data Storage using Hybrid Cryptography and Cloud Computing
03.31 pm	SCT 1088	Detection of DDos Attack on Network Layer of IoT Using Machine Learning Algorithms
03.46 pm	SCT 1090	Boosting Smart City Edge Computing Security through an Ensemble Machine Learning Approach

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Program Schedule

Session 06: EC-02

VENUE: Hall B

Date: 22/03/2024 | Time: 02.45 pm – 03.45 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 1017	Performance Analysis of a Self-Compensation Technique for a Truncated Multiplier
03.01 pm	SCT 1018	A 0.8V supply voltage and 1.1 μ Vrms Input Referred Noise based CMOS 45nm Instrumentation Amplifier for ECG Signal Acquisition
03.16 pm	SCT 1019	Influence of Nitrogen Inclusion on the Performance Parameters of Zinc Oxynitride Thin Film Transistors
03.31 pm	SCT 1029	Simulation of Aerial Swarm Robotics in Gazebo
03.46 pm	SCT 1039	Design of High Efficiency and Lower ICI OFDM System Using Firefly Optimized Unscented Kalman Filter

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Program Schedule

Session 07: PH-02

VENUE: Hall C

Date: 22/03/2024 | Time: 02.45 pm – 03.45 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 4001	Effect of Boron Carbide Addition in Tungsten Carbide Matrix
03.01 pm	SCT 4008	Effect of Reduced Graphene Oxide in Aluminium
03.16 pm	SCT 4056	Deposition Study of Silver Atoms on Zinc Oxide and Copper (II) Oxide Substrate Layers using Molecular Dynamics
03.31 pm	SCT 4057	Structural Analysis of Copper on Silicon at Different Temperatures Using Molecular Dynamics
03.46 pm	SCT 3014	Optimizing Distribution Networks: A Multi-Faceted Approach

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Session 08: CS-05

VENUE: Hall D

Date: 22/03/2024 | Time: 02.45 pm – 03.45 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 3019	Leveraging Machine Learning and Data Imaging for Vehicle Number Plate Recognition with CNPR System
03.01 pm	SCT 3034	Enhancing Emotion Recognition Through Multimodal Fusion of Image and Speech Data: A Comparative Study of Fusion Techniques
03.16 pm	SCT 3035	Web Based Application to Predict Epileptic Seizure at Pre-Ictal Stage
03.31 pm	SCT 3055	Textural Feature based ANFIS Classifier for Identifying Non-Lesional Focal Cortical Dysplasia
03.46 pm	SCT 3056	Combining Manta Ray Optimization with Deep Learning for Chest X-Ray Image Classification

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Venue: Goa University, Goa India (<https://www.unigoa.ac.in/>)
Program Schedule

Session 09: CS-03

VENUE: Hall A
Date: 22/03/2024 | Time: 04.15 pm – 05.45 pm

Time	Paper ID	Paper Title
04.15 pm	SCT 2001	Demystifying the Internet of Things: A Hands-On Approach with Cisco Packet Tracer
04.31 pm	SCT 2002	BH Attack Dataset for Intrusion Detection Systems in RPL Networks
04.46 pm	SCT 2005	Learning Networks Using Cisco Packet Tracer
05.01 pm	SCT 2009	Analysis of Polycystic Ovarian Syndrome Using Deep Learning and Machine Learning Techniques
05.16 pm	SCT 2038	Automatic Detection of Bone Fractures In Hands, Wrist And Fingers with deep learning methods
05.31 pm	SCT 2061	Enhancing Resource Utilization and Energy Efficiency in Cloud Data Centers: An Overview of VM Consolidation Techniques

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Program Schedule

Session 10: EC-03

VENUE: Hall B
Date: 22/03/2024 | Time: 04.15 pm – 05.45 pm

Time	Paper ID	Paper Title
04.15 pm	SCT 1044	Revolutionizing Early Heart Disease Prediction: K-Nearest Neighbours Empowered by Galactic Optimization
04.31 pm	SCT 1066	An Efficient Power Allocation Framework Method for WSN
04.46 pm	SCT 1073	Analysis of Electrical attributes of PVA with PVA/PSSA ionic membrane for piezoresistive application
05.01 pm	SCT 1078	Micromanufacturing and characterization of Coplanar microcoils of Various geometries
05.16 pm	SCT 1082	Image Processing System for Heart and Respiratory Rate Monitoring in High School Students
05.31 pm	SCT 5083	Performance Analysis of Fiber-Optic DWDM System

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Program Schedule

Session 11: ME-01

VENUE: Hall C
Date: 22/03/2024 | Time: 04.15 pm – 05.45 pm

Time	Paper ID	Paper Title
04.15 pm	SCT 3051	Multi-Response Optimization of Wire-Arc Additively Manufactured SS316L using Taguchi - Grey Relational Analysis
04.31 pm	SCT 3064	Finite Elemental Analysis on Front Mono-suspension Support of an EV Scooter
04.46 pm	SCT 3097	Synthesis of Al ₂ O ₃ /GO Composite for Multifunctional Applications
05.01 pm	SCT 4055	Machinability analysis of magnetically annealed Inconel 718 using FEA
05.16 pm	SCT 5076	Fractal Sine Wave Analysis Through Multisim Software Using Numerical Analysis
05.31 pm	SCT 4075	Employing Spectral Signature for Ocular Eyeglass Detection

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Program Schedule

Session 12: CS-06
VENUE: Hall D
Date: 22/03/2024 | Time: 04.15 pm – 05.45 pm

Time	Paper ID	Paper Title
04.15 pm	SCT 3063	An Android App for Automated Diagnosis of Cataract using AI-based Approaches
04.31 pm	SCT 3085	Enhance Encryption Based on Privacy-Preserving Secure Data Storage and Access Methods on Cloud Computing
04.46 pm	SCT 4030	Forecasting of Ozone along with its Contributing Pollutants using Multivariate Time Series Analysis
05.01 pm	SCT 4022	Contextual Semantic Search Based Sentimental Analysis using Bi-Directional LSTM
05.16 pm	SCT 4033	intrusion detection system for the internet of medical things
05.21 pm	SCT 4048	An Optimized RNN Approach to Detect Parkinsons Using Gait Signal Analysis

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Program Schedule

Session 13 : CS-07

VENUE: Hall A

Date: 23/03/2024 | Time: 10.30 am – 01.00 pm

Time	Paper ID	Paper Title
10.30 am	SCT 4076	Artificial Intelligence-based Framework for Efficient and Real Time Tracking and Counting of Pollinator
10.46 am	SCT 4079	A Brief Comparative Analysis on Device-to-Device Communication Channel Modes
11.01 am	SCT 4095	Discovering Small-Molecular Senolytics with Intelligent Algorithm
11.16 am	SCT 5000	Comparison of Neuroevolution and Proximal Policy Optimization for Efficient Policy Search in Reinforcement Learning
11.31 am	SCT 5010	Autocompletion of Words Using Transformer Model
11.46 pm	SCT 5026	Performing Deep Learning analysis on Scanning Electron Microscope images of cashew friction dust material
12.01 pm	SCT 5029	Analysis of Heat Transfer of a Hybrid Nanofluid Stream Across a Stretching Cylinder Using Machine Learning Technique: A Comparative Study
12.16 pm	SCT 5044	Analysis of Microstrip Antenna with Modified Ground for ISM Band Application
12.31 pm	SCT 5054	A Novel Lane Detection Approach for Vehicle Adaptive headlamps
12.46 pm	SCT 4013	Structured and Comprehensive review on Indian Languages (IL) NER: Taggers and Approaches

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Program Schedule

Session 14 : EC-04

VENUE: Hall B

Date: 23/03/2024 | Time: 10.30 am – 01.00 pm

Time	Paper ID	Paper Title
10.30 am	SCT 1094	Design and Analysis of FinTFET enabled Biosensor
10.46 am	SCT 2053	A Comparative Analysis of Convolutional Neural Network Architectures for Facial Recognition: Impact of Dataset Selection and Diversity
11.01 am	SCT 2082	Analysis of Digitally Coded IRS aided mmWave Communication System
11.16 am	SCT 2098	Experimental Analysis of Optical Wavelength for Noninvasive Measurement of Glucose
11.31 am	SCT 3024	Impact of Junctionless TFET Noise on Electrical Behavior of Two-Port Network
11.46 pm	SCT 3036	Ultra-thin gate oxide based multigate MOSFET based ionizing radiation dosimeter for high energy applications
12.01 pm	SCT 3040	Ionizing radiation detection for high energy applications using a p-RadFET dosimeter based on conventional CMOS technology
12.16 pm	SCT 3050	A Comparative Analysis of Deep Learning Techniques for Pneumonia Detection in Chest X-Rays
12.31 pm	SCT 3060	Preprocessing of Hyperspectral Brain Images and Classification with Deep Neural Networks
12.46 pm	SCT 3071	An investigation on impact of overloading on performance of E-Rickshaw Loader in India

Second International Conference on
Advances in Smart Sensor, Signal Processing & Communication Technology (ICASSCT 2024)
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Program Schedule

Session 15 : EC-06

VENUE: Hall C
Date: 23/03/2024 | Time: 10.30 am – 01.00 pm

Time	Paper ID	Paper Title
10.30 am	SCT 4071	Instance Label Consistency Across Multicamera Panoramas
10.46 am	SCT 4074	Stutter Classification on the SEP-28k dataset: Insights from ResNet-18 and BiLSTM Architectures
11.01 am	SCT 4077	Prediction and Classification of Geomagnetic Anomaly for Cyclone Forecasting
11.16 am	SCT 4084	Dry Electrode Design for Non-Invasive Fetal ECG Acquisition
11.31 am	SCT 4092	Molybdenum Disulfide (MoS ₂) as a Photocatalyst: Synthesis, Mechanism, and Applications
11.46 pm	SCT 5018	Text-to-Image Synthesis using Transformers in GANs
12.01 pm	SCT 5043	Flexible Pressure Sensor Prepared with 1T Molybdenum Disulfide
12.16 pm	SCT 5055	Analyzing the Relationship Between Music Signals and Brain Signals Using Machine Learning
12.31 pm	SCT 5067	Electroencephalogram (EEG) Signal Analysis and Classification Towards Emotion Detection Applications
12.46 pm	SCT 5071	Radio wave Propagation in Indian Semiurban and Rural Scenario: A case Study

Second International Conference on
Advances in Smart Sensor, Signal Processing & Communication Technology (ICASSCT 2024)

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Program Schedule

Session 16 : EE-01

VENUE: Hall D

Date: 23/03/2024 | Time: 10.30 am – 01.00 pm

Time	Paper ID	Paper Title
10.30 am	SCT 1035	Design and Evaluation of a PI-PD Cascade Controller for Enhancing Performance in Unstable Ball and Beam System
10.46 am	SCT 1052	Adaptive HBCC Technique for Power Factor Improvement of PWM AC Chopper Fed Three-Phase Induction Motor with PV
11.01 am	SCT 1054	The Optimal Distributed Generator Sizing and Placement by Modified Particle Swarm Optimization (MPOS) Algorithm for Minimization of Distribution Power Loss
11.16 am	SCT 2073	A new way to harvest energy for sustainable development towards green technology
11.31 am	SCT 2087	Enhanced Control of Parallel VSCs in an AC Microgrid with PV, Wind, Diesel Generation, and Battery Storage using Adaptive Fuzzy Sliding Mode Controller (AFSMC)
11.46 pm	SCT 2099	Design of Cooling Case for Li-ion battery to maintain the battery at optimal temperature
12.01 pm	SCT 3001	Internet of Things based decision support system for Green manufacturing with Life cycle Assessment
12.16 pm	SCT 3089	Estimation of Tether force in Power generation from high altitude Kites
12.31 pm	SCT 4010	Fully Autonomous Self Driving Electric Vehicle for Ploughing
12.46 pm	SCT 4059	A Review on Examining Prenatal Depression with Electroencephalography

Second International Conference on
Advances in Smart Sensor, Signal Processing & Communication Technology (ICASSCT 2024)

22-23, March 2024 | Goa, India | <https://icassct.com/>
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Program Schedule

Session 17: CS-08

VENUE: Hall A

Date: 23/03/2024 | Time: 02.45 pm – 04.15 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 5073	Enhancing Water Quality Assessment Through Machine Learning: A Case Study in West Godavari District
03.01 pm	SCT 5079	Combining Pyramid Cipher and Complement of Fuzzy Modulo with Fuzzy Number
03.16 pm	SCT 5093	Cardiovascular Disease Prediction: Exploring Filter-Based Feature Selection using Extreme Learning Machine with Real Time Data
03.31 pm	SCT 5068	Review of Deep Learning based Indian Language Named Entity Recognition and Foundation for Development of Assamese Named Entity Recognizer
03.46 pm	SCT 4051	Evaluation of English to Bodo Neural Machine Translation using Varying Beam Size
04.01 pm	SCT 5085	Studies on conductivity and Impedance Spectroscopy of Polyaniline- LiClO ₄ Composites

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Program Schedule

Session 18: EC-05
VENUE: Hall B
Date: 23/03/2024 | Time: 02.45 pm – 04.15 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 3087	Electronically Tunable Inverse Low Pass Filter
03.01 pm	SCT 3090	Power-optimized NORA Multiplexer using charge recycling
03.16 pm	SCT 4016	Augmenting Controversial Decisions in Tennis Game Using Sensor Based Technologies
03.31 pm	SCT 4032	Cloud classification using transfer convolutional neural network for short term rainfall prediction
03.46 pm	SCT 4049	Analysis and Implementation of an Ultralow Power FFT for Bio-medical Applications
04.01 pm	SCT 5037	Self-Adjusting Fan System for Efficient Indoor Temperature Control

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Program Schedule

Session 19: MA-01

VENUE: Hall C

Date: 23/03/2024 | Time: 02.45 pm – 04.15 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 2052	CC- Domination Number of Corona Product of Graphs
03.01 pm	SCT 1040	A brief note on encoding and decoding in cryptography
03.16 pm	SCT 1041	Some fascinating applications of matrices in Computation, Combinatorics, Cryptography and Chemical Sciences
03.31 pm	SCT 2081	Non-Expansive Mappings for Four Weakly Compatible with Rationalized Contractive Condition
03.46 pm	SCT 3044	Higher order chemical reaction of Darcy-Forchheimer Radiative Casson Ferrite nanofluid in porous medium
04.01 pm	SCT 4019	Prediction of a Smart Grid Stability Using Feature Selection of Ensemble Learning Models

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Program Schedule

Session 20: EE-02
VENUE: Hall D
Date: 23/03/2024 | Time: 02.45 pm – 04.15 pm

Time	Paper ID	Paper Title
02.45 pm	SCT 4037	A New, Automated, Circuit for Measuring fF-range Capacitance
03.01 pm	SCT 4041	MM-wave Radar Based Human Activity Recognition Using Machine Learning Model
03.16 pm	SCT 5003	PIN diode based dosimeter for gamma ray detection for high energy applications
03.31 pm	SCT 5020	Component Removal and Segregation Systems for PCB Management
03.46 pm	SCT 5049	Low Power design using TSPC based D flip-flop in 16nm Technology
03.46 pm	SCT 5035	Energy Efficient Decentralized Blockchain Framework in Fog Computing