



IFET COLLEGE OF ENGINEERING

(An Autonomous Institution)



1st IEEE International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN 2022)

Session Chairs : 1. Dr Malaya Kumar Nath, Assistant Professor, Dept. of ECE, NIT, Puducherry.
2. Dr.M.Saravanan, Associate Professor, Dept. of ECE, IFETCE

Date and Time : 25/03/2022 (Friday- FN), 11:30AM to 2:00PM

Track 1 : Neural Networks

Meeting ID : <https://meet.google.com/zxq-mtky-hbx>

S.NO	Paper ID	Paper Details
1	ICSTSN 032 (11.30-11.45AM)	Image Captioning using Neural Network Models <i>Prachi M. Waghmare*, Dr. Swati Shinde , Dr. JayshreeKatti</i>
2	ICSTSN 054 (11.45-12.00 PM)	Regularized CNN for Traffic Sign Recognition <i>Virendra Patel*, Saurabh Shrivastava, Sanyam Shukla, Manasi Gyanchandani</i>
3	ICSTSN 055 (12.00-12.15 PM)	Detection of COVID-19 using a Deep Neural Network with Transfer Learning Approach <i>AbhinandanKalita*, Dr. RangababuPeesapati, Prof. Shaik Rafi Ahamed</i>
4	ICSTSN 063 (12.15-12.30 PM)	Prototype Implementation of Neural Networks based Agricultural Farm Monitoring and Rain Prediction <i>M. Kalpana*, Dr. V. Muneeswaran, Mr. D. Ram Prasad Reddy, Mr. Y. Venkata Krishna, Mr. K. Suresh</i>
5	ICSTSN 077 (12.30 -12.45 PM)	Performance Analysis of Semantic Segmentation using Optimized CNN based SegNet <i>Dr.B.LakshmiPriya*, S.Jayalakshmy, G.Idayachandran, SasirekhaKumaran,</i>
6	ICSTSN 084 (12.45-1.00 PM)	ESC: Extractive Summary Construction for Ranking of Customer Criticism using Artificial Neural Networks <i>Sindhu C*, Ms. AnanyaRana, Ms. DeeptiBussennagari, Mr. KallepalliSaiSada Rishi Varma,</i>
7	ICSTSN 118 (1.00-1.15 PM)	Deep Neural Network based Medical Image Steganography <i>Shrinivas D Desai*, Dr.Nirmala Patil, Mrs.Nirmala S R, Mr.Deepak Shinde, Ms.Shwetha Kulkarni, Mrs.P D Desai,</i>
8	ICSTSN 189 (1.15-1.30 PM)	A Secure Trading System Using High Level Virtual Machine (HLVM) Algorithm <i>Padmapriya.N*, Tamilarasi, Kanimozhi</i>
9	ICSTSN 166 (1.30-1.45 PM)	Real Time Riped Fruit Detection using Faster R-CNN Deep Neural Network Models <i>Sudha C*, Dr.K.JaganMohan, Dr.M.Arulaalan</i>
10	ICSTSN 180 (1.45-2.00 PM)	Automatic Video Summarization for Cricket Match Highlights using Convolutional Neural Network <i>B.J.Dange, D.B.Kshirsagar, H.E.Khodke,S.N.Gunjel</i>



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Session Chairs : 1. Dr.K.V.N.Kavitha, Associate Professor, VIT University, Vellore.
2. Dr.B.Elizabeth Caroline, Professor, Dept. of ECE, IFETCE

Date and Time : 25/03/2022 (Friday-FN), 11:30AM to 1:45PM

Track 2 : Antenna Design & Embedded Applications

Meeting ID : <https://meet.google.com/swq-fwzf-sxo>

S.NO	Paper ID	Paper Details
1	ICSTSN 010 (11.30-11.45AM)	Tipple Band S-Type Antenna with Meander Line for ISM Band Application <i>B.Jeyapoornima*, A.Balaji, Mahalakshmi V, Dr.S.Vanaja, J.JoselinJeyaSheela, Y.Deepika</i>
2	ICSTSN 024 (11.45-12.00 PM)	Crescent Cut Octagon Antenna for Millimeter Wave Applications <i>K.Manjunath*, Dr. S.Narayana Reddy</i>
3	ICSTSN 130 (12.00-12.15 PM)	A Novel Reconfigurable Antenna Architecture for Wireless Applications <i>Poonguzhali S*, D.Sathish Kumar, Dr. A.Sivasangari, Dr. S.Lalithakumari</i>
4	ICSTSN 168 (12.15-12.30 PM)	FR-4 based Single-Element Rectangular Microstrip Patch Antenna for ISM Band Applications <i>Nishanth .R*, S.V. Mahesh Kumar, A. Duraibabu, Vineeth M, R.Sheeja, K.Suresh Kumar</i>
5	ICSTSN 111 (12.30 -12.45 PM)	Design of Field to Fork Framework: Integrating IoT into Traditional Farming <i>Vishnu Kumar*, Dr. G. AloyAnuja Mary, Dr. R. Uthirasamy, Dr. S. ArunmozhiSelvi, Dr. G. Glorindal,</i>
6	ICSTSN 029 (12.45-1.00 PM)	Gesture Controlled Assistive Device for Deaf, Dumb and Blind People Using RASPBERRY-PI <i>Arunkumar R*, Manikanavar</i>
7	ICSTSN 050 (1.00-1.15 PM)	Secure Automatic Question Paper Generation with the Subjective Answer Evaluation System <i>M.Saravanan*, I.Ragasudha</i>
8	ICSTSN 061 (1.15-1.30 PM)	Testing Context Aware Application and its Research Challenges <i>Ms. S. Shanmuga Priya*, Dr. B. Rajalakshmi</i>
9	ICSTSN 190 (1.30-1.45 PM)	Low Cost Visual Support System for Challenged People <i>Dr. T. Ananth kumar*, Christo Ananth, Stalin Jacob, Jenifer Darling Rosita, M.S.Muthuraman</i>



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Session Chairs : 1. Dr.R.Maheswar, Dean I/C – Research & Senior Associate Professor, VIT
Bhopal University, Madhya Pradesh.
2. Dr.J.Vidhya, Associate Professor, Dept. of ECE, IFETCE

Date and Time : 26/03/2022 (Saturday-FN), 10:00AM to 12:15PM

Track 3 : IoT & Network Security

Meeting ID : <https://meet.google.com/way-ccae-jwt>

S.NO	Paper ID	Paper Details
1	ICSTSN 028 (10.00-10.15AM)	IoT Enabled Smart Switch with User-Friendly Electrical Interfacing <i>ManikannanGovindasamy*, P. Prabakaran, M. Selvaganapathy,</i>
2	ICSTSN 037 (10.15-10.30AM)	A Survey on Efficient Methodologies & optimization techniques for vehicle maintenance using IoT and Transfer Learning <i>V Raviteja Kanakala*, Dr.K.Jagan Mohan, Dr.V.Krishna Reddy</i>
3	ICSTSN 043 (10.30-10.45AM)	AIoT-Based Smart Cart System <i>Sakthivel*, Akash Ram R K, Sidarth Sai B, Vijaiya Kesavan K M, Dr Ganesh Kumar C</i>
4	ICSTSN 065 (10.45-11.00AM)	Smart Ambulance for Traffic Control and Tracking by GPS through IOT <i>Akshayaa.M*, Dr.Sheela A, Dr. Prithivi K, Mr.Arihararuban M, Ms.Kowseka R, Ms.Swathi A</i>
5	ICSTSN 087 (11.00-11.15AM)	Design of Photonic Crystal Fiber Based Gas Sensor for Sensing Nitrous Oxide and Benzene at Atmospheric Level <i>Loga.K*, Mr. S. Mohamed Nizar, Dr. B. Elizabeth Caroline</i>
6	ICSTSN 109 (11.15-11.30AM)	Information Gain-based Feature Selection Method in Malware Detection for MalDroid2020 <i>PoojaVIjayAgrawal*, Deepak D. Kshirsagar</i>
7	ICSTSN 153 (11.30-11.45AM)	Provable data possession based Multi-Cloud Storage Security with Auditing <i>JerartJulus L*, Chamaeshika, Vasanthi, Jerart Julius L</i>
8	ICSTSN 156 (11.45-12.00PM)	Towards a Novel and Efficient Public Key Management for Peer-Peer Security in Wireless Ad-Hoc/sensor Networks <i>Nishanth.R*, Abin John Joseph, NidhinSani, Vineeth M.V, K.Suresh Kumar, T.Ananth Kumar</i>
9	ICSTSN 059 (12.00-12.15PM)	An Efficient Medical Image Encryption Using Magic Square and PSO <i>Senthilnayaki B*, Venkatalakshmi K, Dharanyadevi P, Nivetha G</i>



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Session Chairs : 1. Dr.P.Karuppanan, Professor, Dept. of ECE, MNIT, Allahabad.
2. Dr.R.Senthil Kumaran, Associate Professor. Dept. of ECE, IFETCE

Date and Time : 26/03/2022 (Saturday-FN), 10:00AM to 12:15PM

Track 4 : VLSI design and Wireless sensor Networks

Meeting ID : <https://meet.google.com/gcw-riot-fsa>

S.NO	Paper ID	Paper Details
1	ICSTSN 122 (10.00-10.15AM)	Rotation Scheme Based Power Consumption Analysis for Wireless Sensor Network <i>M. Julie Therese*, A.Devi, B.Balaji, Dr.P.Dharanyadevi</i>
2	ICSTSN 129 (10.15-10.30AM)	Energy Efficient Access Selection Algorithm using Cognitive Wireless Sensor Networks <i>Kalpana S*, Dr.Gunasundari</i>
3	ICSTSN 052 (10.30-10.45AM)	Spectrum resource sharing methodology based on CR-NOMA on the future integrated 6G and satellite network: principle and Open researches <i>Mohamadou Ndiaye*</i>
4	ICSTSN 148 (10.45-11.00AM)	Vayu - A proposal to address the SDG for maintaining AQI through 5G/6G mobile network <i>Anjali Badlani*, Dr. SharmilaSengupta, Sanket Chaudhary, Sarthak Thakur</i>
5	ICSTSN 194 (11.00-11.15AM)	Digital Design of Counter based Pulse Width Modulation in Quantum dot Cellular Automata <i>P Jegadeeshwari*, Dr.T.Anitha, Dr.M.Arulaalan</i>
6	ICSTSN 048 (11.15-11.30AM)	Range Aware Unsigned Multiplier <i>Chinmaya Dash*</i>
7	ICSTSN 112 (11.30-11.45AM)	Low Power Enhanced Trivium Implementation Using Parallel-Pipeline Technique <i>Vishnu Kumar*, Dr. S. Shiyamala, A.Meena, Dr. Uthirasamy R, Saleemnawaz M.A</i>
8	ICSTSN 150 (11.45-12.00PM)	Modelling and Simulation of Class D and Class DE Amplifier Systems <i>SathiyaPriyan. P*, B. Balaji, A. Devi, D. Gayathri</i>
9	ICSTSN 200 (12.00-12.15PM)	A Modified Full Adder (MFA) with an introverted unique Design for Low Power VLSI Circuit Applications <i>Saravanan Murugaiyan*, Suresh Kumar</i>



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Session Chairs : 1. Dr.A.John, Associate Professor, School of Computing Science and Engineering, Galgotias University, Delhi NCR.
2. Dr.P.Kanimozhi, Associate Professor, Dept.of CSE, IFETCE

Date and Time : 25/03/2022 (Friday-AN), 1:30PM to 4:00PM

Track 5 : Machine Learning Techniques & its Applications

Meeting ID : <https://meet.google.com/bwd-wdsm-she>

S.NO	Paper ID	Paper Details
1	ICSTSN 187 (1.30 -1.45PM)	Performance Enhancement of Passive Distribution Network by optimal deployment of Distributed Generation <i>Anil Verma*, Dr. Ritula Thakur</i>
2	ICSTSN 051 (1.45 -2.00PM)	Privacy preserving Data security model for Cloud computing technology <i>M.Janani Priya*, Dr.G.Yamuna</i>
3	ICSTSN 105 (2.00 -2.15PM)	A Survey on Machine Learning-Based Facial Recognition Algorithm <i>Deeksha H Kulal*, Rounak Raj, Sandhya Balakrishna, Sunny Singh, Shruthi M L J</i>
4	ICSTSN 110 (2.15 -2.30PM)	Seasonal Sales Prediction and Visualization for Walmart Retail Chain Using Time Series and Regression Analysis: A Comparative Study <i>Rut Vyas*, Revathi A. S.</i>
5	ICSTSN 126 (2.30 -2.45PM)	Detecting Offensive Tamil Texts Using Machine Learning and Multilingual Transformer Models <i>Gowthamkrishnan S*, Malliga Subramanian, Adhithiya G J, Deepti R</i>
6	ICSTSN 132 (2.45 -3.00PM)	Dynamic Face Mask Detection Using Machine Learning <i>Dr.G.Nalinipriya*, Dr.M.Shobana, Dr.C.Siva, Ms.Kanisha .B, Ms.Monica J K, Ms.Siva Vadivu Ragavi.V</i>
7	ICSTSN 133 (3.00 -3.15PM)	Detection And Classification Of Malignant Melanoma And Skin Lesion Benign <i>Vijayalakshmi K*, K. Jayabarathy</i>
8	ICSTSN 134 (3.15 -3.30PM)	A Vibrant Multiple Object Detection Using Machine Learning Techniques <i>Dr.Vijayakumar Adaickalam*, .Dr. SP.Manikandan, Dinesh P.S, N.Kanagavalli</i>
9	ICSTSN 136 (3.30 -3.45PM)	Band Guard- A Dynamic Security Tool for Women Protection Using Data Analysis <i>P.Renukadevi*, R.Brindha, N.Kanagavalli, D.Jeyakumar</i>
10	ICSTSN 139 (3.45 -4.00PM)	Human Cognition Detection In Location-Based Social Recommender System <i>Dr A Abdul Rasheed*</i>



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Session Chairs : 1. Dr.R.Sundaramurthy, Executive Director, AIC-PEC, Pondicherry Engineering College, Puducherry.
2. Dr.P.Pugazhendhiran, Professor, Dept. of EEE, IFETCE

Date and Time : 26/03/2022 (Saturday-AN), 1:30 PM to 04:00 PM

Track 6 : Smart Grid and Power Systems

Meeting ID : <https://meet.google.com/nxr-nbrj-jwh>

S.NO	Paper ID	Paper Details
1	ICSTSN 020 (1.30 -1.45PM)	Case study in Alternate Source of Load Energy by Photovoltaic Cell in Smart Grid <i>V.Pushpabala*, Dr.C. ChristoherAsirRajan,</i>
2	ICSTSN 039 (1.45 -2.00PM)	Mitigation of Ferranti Effect and Voltage Control in Transmission Systems Using Fuzzy Logic Controlled SVC <i>GiriprasadAmbati*</i>
3	ICSTSN 040 (2.00 -2.15PM)	Comparative Analysis of STATCOM and SVC on Power System Dynamic Response and Stability Margins with time and frequency responses using Modelling <i>Annapurna Karthika Garikapati*, Venu Yarlagaadda, Annapurna KarthikaGarikapati, Lakshminarayana Gadupudi, Rashmi Kapoor, K.Veeresham</i>
4	ICSTSN 067 (2.15 -2.30PM)	Analysis of requirement of load matching for photovoltaic-maximum power tracking system <i>Babita Panda*, Arjyadhara Pradhan, Babita Panda, Chitrarekha Jena SatyabrataSahoo, Lipika Nanda</i>
5	ICSTSN 082 (2.30 -2.45PM)	Opposition Based Group Search Optimized Optimal Scheduling of Fixed Head hydrothermal Power System <i>Chitrarekha Jena*, Dr.Pampa Sinha, Dr.Lipika Nanda, Dr.Babita Panda, Arjyadhara Pradhan,</i>
6	ICSTSN 149 (2.45 -3.00PM)	Implementation of Hybrid Electrical System for Electrical Vehicle <i>SachinAravind.S*, R.Revathy, B.Balaji</i>
7	ICSTSN 155 (3.00 -3.15PM)	Performance Analysis of Single Step SPWM Inverter for Fuel cell Applications <i>R.Ramesh*, C.Sarveen, R.Suganya,</i>
8	ICSTSN 162 (3.15 -3.30PM)	Performance Analysis of Grid Integrated PV Based Distributed Generation with Maximum Power Point Tracking <i>Dipeshbhai Gangoda*, Dr.Siddharthsingh K. Chauhan,</i>
9	ICSTSN 027 (3.30 -3.45PM)	Comparative analysis of Covid- 19 Data: A statistical approach for unraveling the relation between the awareness and healthcare system from Indian perspective <i>Ishani Bhat*</i>
10	ICSTSN 201 (3.45 -4.00PM)	Optimal Controller Design of PUC-15 MLI Topology for Smart Grid Applications with Reduced Power Components <i>Narendra Muthukuri, Subba Rao Mopidevi</i>



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Session Chairs : 1. Dr.T. Sree Sharmila, Associate Professor, SSN institutions, Chennai.
2. Mrs.S.Jayalakshmy, Associate Professor, Dept.of ECE, IFETCE

Date and Time : 25/03/2022 (Friday-AN), 1:30PM to 3:45PM

Track 7 : Artificial Intelligence

Meeting ID : <https://meet.google.com/dmz-qjgo-ohk>

S.NO	Paper ID	Paper Details
1	ICSTSN 175 (1.30 -1.45PM)	AliExpress- A Collaborative Recommendation System <i>Dr Sridevi Saralaya*, Aliptha Pejavar, Mridula, Neha S Shetty, Shefali Johnas</i>
2	ICSTSN 177 (1.45 -2.00PM)	Educational Robotics and Computer Programming in Early Childhood Education :A Conceptual Framework for Assessing Elementary School Students Computational Thinking for Designing Powerful Educational Scenarios <i>Ashraf Alam*</i>
3	ICSTSN 196 (2.00 -2.15PM)	Integrated Implementation of Hybrid Deep Learning Models and IoT Sensors for Analyzing Solider Health and Emergency Monitoring <i>Usharani S*, R.Rajmohan, P.Manju Bala, D.Saravanan, P.Agalya</i>
4	ICSTSN 104 (2.15 -2.30PM)	Credit Card Assent Using Supervised Learning <i>M. Julie Therese*, A. Devi, Gurulakshmi, R. Sandhya, P. DharanyaDevi</i>
5	ICSTSN 114 (2.30 -2.45PM)	Aspect Based Sentiment Analysis in Customer Reviews <i>Shobana G*, D.Yamunathangam</i>
6	ICSTSN 157 (2.45 -3.00PM)	Deep Regression hybridized Neural Network in human stress detection <i>Prasanna Lakshmi*Dr. T. Ananthkumar</i>
7	ICSTSN 075 (3.00 -3.15PM)	Enhanced load balancing in Kubernetes Cluster by minikube <i>Mohamed Khallel*, Rohith Raj, Arul Pugazhendhi</i>
8	ICSTSN 015 (3.15 -3.30PM)	Performance Evaluation of Active Power Correction Using BAS-PLC Controller for Solar Photovoltaic System <i>Mr. Meganathan. P*, Dr. Sasi. C, Dr. Pugazhendiran, Dr. Nammalvar.</i>
9	ICSTSN 078 (3.30 -3.45PM)	Performance Analysis of AI based Optical guiding Device for visually compromised person <i>Punit Srivastava*, Priyanshi Shrivastav, Nikhil Chaturvedi, R.L. Yadava,</i>



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Session Chairs : 1. Dr.Jagadeesh Kakarla, Assistant Professor, Dept. of CSE, IITDM
Kanchipuram.

2. Dr.U.Palani, Professor, Dept. of ECE, IFETCE

Date and Time : 26/03/2022 (Saturday-FN), 10:00AM to 12:15PM

Track 8 : Deep Learning Techniques and its Applications

Meeting ID : <https://meet.google.com/kod-mjnx-afp>

S.NO	Paper ID	Paper Details
1	ICSTSN 060 (10.00-10.15AM)	Home Automation by Speech Detection System using Deep Learning <i>Manoj B M*, S. ShanmugaPriya, Rachana P, Shradda Aramoti, Shifa Fathima</i>
2	ICSTSN 119 (10.15-10.30AM)	Deep Learning Model to Improve Security in IOT Systems <i>Rajeeshkumar N V*, Dr. Arun M</i>
3	ICSTSN 127 (10.30-10.45AM)	Deep Learning Method for Classifying Thyroid Nodules Using Ultrasound Images <i>Pavithra S*, Dr. Yamuna G, Dr. Arunkumar R,</i>
4	ICSTSN 093 (10.45-11.00AM)	Diabetic Retinopathy Detection using MobileNetV2 Architecture <i>Abhay M Pamadi*, Ananya Ravishankar, AnuNithya P, Jahnavi G, SheelaKathavate</i>
5	ICSTSN 101 (11.00-11.15AM)	Ensembling Framework for Pneumonia Detection in Chest Xray images <i>Guru Gokul AR*, Dr. N. Kumaratharan, P. Leela Rani, Dr. N. Devi</i>
6	ICSTSN 102 (11.15-11.30AM)	Personality Prediction of Social Network Users using LSTM based Sentiment Analysis <i>Dimanthinie De Silva*, Avishka Jaysundara, Priyantha Kumarawadu</i>
7	ICSTSN 138 (11.30-11.45AM)	Automated COVID-19 diagnosis using Deep Multiple Instance Learning with CycleGAN <i>Suganya D*, R.Kalpana</i>
8	ICSTSN 164 (11.45-12.00PM)	Larvicidal activity of 1,3,4- oxadiazole analogues and their Molecular Docking Studies <i>Dr.K.Santhanalakshmi, Dr.Gomathi Thandapani, Dr.K.Margandan K, Dr.Neelakandeswari</i>
9	ICSTSN 181 (12.00-12.15PM)	Identification of Prosopis Juliflora using Deep Learning Techniques <i>Jothika R*, Aishwarya Vaikundam R, Harshini S, Srinivasan R, Sree Sharmila T</i>



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Session Chairs : 1. Dr. S. Joseph Gladwin, Project Manager, BigCat Wireless, Chennai.
2. Dr.T.Ananth Kumar, Assistant Professor, Dept. of CSE, IFETCE

Date and Time : 26/03/2022 (Saturday-AN), 1:30 PM to 04:00 PM

Track 9 : Pattern Classification

Meeting ID : <https://meet.google.com/ggb-ysjs-hgi>

S.NO	Paper ID	Paper Details
1	ICSTSN 188 (1.30 -1.45PM)	Improved Computer Vision Analysis for MRI and CT Images Using Multistage Fusion Networks <i>P.Kanimozhi*, Mrs. N. Padmapriya, Newton. A</i>
2	ICSTSN 202 (1.45 -2.00PM)	Multi aspects based requirements prioritization for large scale software using deep neural lagrange multiplier <i>Raghavendra Devadas*, Nagaraj G Cholli</i>
3	ICSTSN 081 (2.00 -2.15PM)	New Analytic Framework of Public Mental Health Prediction Using Data Science <i>Dr Balajee Maram*, Hari Krishna marrapu, Prasadu Reddi</i>
4	ICSTSN 085 (2.15 -2.30PM)	Generating high resolution images using Latent Adversarial Generator <i>Shredha Ganesh, Swathi R, T. Sree Sharmila</i>
5	ICSTSN 131 (2.30 -2.45PM)	Dynamic AI based Email Voice Assistant for Web Services <i>G NaliniPriya*, K.G Maheswari, R.Meenakshi, Anandasayanam K , Hariram B, Maheswara Pandian G</i>
6	ICSTSN 017 (2.45 -3.00PM)	Image Fusion based Removal of Color Artifacts for the Enhancement of Dermoscopy Images <i>Shobana P*,Dr. J. Deny</i>
7	ICSTSN 035 (3.00 -3.15PM)	Fusion of Two Novel Local Descriptors for Face Recognition in Distinct Challenges <i>Shekhar Karanwal*</i>
8	ICSTSN 086 (3.15 -3.30PM)	Traffic Sign Prediction and Classification Using Image Processing Techniques <i>Senthilnayaki B*, Rajeswary C, Nivetha G, Dharanyadevi P, Mahalakshmi G, Venkatalakshmi K</i>
9	ICSTSN 108 (3.30 -3.45PM)	A Novel Remote Sensing Based Approach to Estimate the Water Quality Index Using Sentinel-2 Multispectral Data <i>Rahul T S*, J. Brema, G.Jims John Wessley</i>
10	ICSTSN 165 (3.45 -4.00PM)	Retinal Blood Vessel Segmentation using Random Forest with Gabor and Canny Edge Features <i>Kuppusamy P*, Dr. Mehfooza Munavar Basha, Dr. Che-Lun Hung</i>