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3rd International Conference on Emergent Converging Technologies and Biomedical Systems

(ETBS – 2023) May 15-17, 2023

Programme

Day I : Monday, 15th May 2023

Time	Activity	Speaker/ Session Chair	Theme / Track	Moderator
08:30 am-10:00 am	Registration			
9:15 am-10:00 am	Interaction with Mr. Bharat Kumar Sharma by CSE/IT department and IEEE JUIT SB Venue : CL10			
10:15 am –10:45am	Inaugural ceremony Venue : LT2			Dr. Sunil Datt Sharma, Dr. Himanshu Jindal, Dr. Simran Sethia Ms. Jyotsna Bajaj
10:45am – 11:30 am	Keynote 1	Mr. Bharat Kumar Sharma <i>Director and GPU advocate NVIDIA AI Tech Centre India</i>	Topic: Software 2.0 and Future of Computing Venue : LT2	Dr. Ruchi Verma, Mr. Vineet Paliwal
11:30am-11:45am	High Tea			
11:45am–12:30pm	Keynote 2	Dr Narayan Panigrahi <i>Scientist-'G', Group Head GIS Center for Artificial Intelligence & Robotics Bangalore</i>	Topic: Brain-Computer Interface through interpretation of EEG data Venue : LT2	Dr. Monika, Mr. Vineet Paliwal
11:45am–12:30pm	Tech Talk	Dr Sudarshan Iyengar HoD, CSE, IIT Ropar	Tech Talk by IEEE JUIT SB Venue : CR8	Mr Vipul, Mr. Arnab
12:30 pm-01:30 pm	Session – 1	Session Chair – Dr. Nitin Auluck, Dr. Pradeep Gupta, Dr. Aman Sharma, Dr. Kamal Malik Venue : TR5		Dr. Kushal Kanwar, Sh. Praveen Modi, Mr. Ashok Kistwal
		Title	Paper ID	Author(s)

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Session – 2	Violence detection using DenseNet and LSTM	ETBS2023_JUIT_094	Prashansa Ranjan, Ayushi Gupta, Nandini Jain, Tarushi Goyal and Krishna Kant Singh	Dr. Nancy Singla, Sh. Hardeep Rana
	DeepPose: A 2D Image based Automated Framework for Human Pose Detection and a Trainer App using Deep Learning	ETBS2023_JUIT_119	Amrita Kaur, Anshu Parashar and Anupam Garg	
	A Curated Study on Machine Learning Based Algorithms and Sensors for Drone Technology in Various Application	ETBS2023_JUIT_107	Digant Raj, Garima Thakur and Arti	
	Session chair – Dr. Nikhil Marriwala, Dr. Rajni Mohana, Dr. Pankaj Dhiman, Dr. Diksha Hooda			
	Venue : TR6			
	Title	Paper ID	Author(s)	
	Pervasive and Wearable Computing and Networks	ETBS2023_JUIT_146	Jatin Verma, Tejinder Kaur	
Open-Source Gesture-Powered Augmented Reality-based Remote Assistance Tool for Industrial Application: Challenges and Improvisation	ETBS2023_JUIT_157	Chitra Sharma, Kanika Sharma , Manni Kumar, Pardeep Garg, and Nitin Goyal		
Crime Rate Prediction in Tamil Nadu using Machine Learning	ETBS2023_JUIT_171	SilviyaManandhar , Bandana Rawal, Selamawit Getachew, Shubhankar Chaturvedi, LokaiahPullagura, Garima Sinha		



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	Session-3	Session chair – Dr. Pushpendra P. Singh, Dr. Vivek Sehgal, Prof. Anupriya Kaur Venue : TR7			Dr. Simran Setia, Dr. Abhilasha, Mr. Dharendra
		Title	Paper ID	Author(s)	
		Accountability of Immersive Technologies in dwindling the reverberations of Fibromyalgia	ETBS2023_JUIT_032	Sheena Angra and Bhanu Sharma	
		Smart Health Monitoring System for Elderly People	ETBS2023_JUIT_063	Kalava Guru Mallikarjuna, MedagamSailendra Reddy, Kolluru Lokesh, Kasani Mohan Sri Sai, Mamidi K. Naga Venkata Datta Sai and Indu Bala	
		DEPRESSION SEVERITY DETECTION FROM SOCIAL MEDIA POSTS	ETBS2023_JUIT_172	Naveen R, PrasanthiBolimer a, Yash Gupta, Anand Kumar M	
01:30 pm-02:30 pm	Lunch				
02:30 pm-03:30 pm	Keynote 3	Dr. Vishal Sharma <i>School of Electronics, Electrical Engineering and Computer Science, Queen's University, Belfast, UNITED KINGDOM.</i>	Topic: Security of smart computing devices (http://meet.google.com/dr-v-qkpb-kvy) Venue : CL10	Dr. Himanshu Jindal, , Mr. Ravi Raina	
2:45 pm- 3:30 pm	Interaction with Dr Narayan Panigrahi by ECE Deptt. Venue : ECL5 / Board Room				

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03:30 pm -05:00 pm	Session - 4	<p>Session chair – Dr. Pardeep Kumar, Dr. Yugal Kumar, Dr. Jagpreet Sidhu, Dr. Nancy Singla</p> <p style="text-align: center;">Venue : TR5</p> <table border="1" data-bbox="500 699 1333 1425"> <thead> <tr> <th data-bbox="500 699 824 779">Title</th> <th data-bbox="824 699 1105 779">Paper ID</th> <th data-bbox="1105 699 1333 779">Author(s)</th> </tr> </thead> <tbody> <tr> <td data-bbox="500 779 824 995">A 233-bit Elliptic Curve Processor for IoT Applications</td> <td data-bbox="824 779 1105 995">ETBS2023_JUIT_036</td> <td data-bbox="1105 779 1333 995">Deepak Panwar, Sumit Singh Dhanda, Kuldeep Kaswan, Pardeep Singh and Savita Kumari</td> </tr> <tr> <td data-bbox="500 995 824 1211">Signal Processing for Language Sanitization: Detection and Censorship of Obscene Words in Speech Recordings</td> <td data-bbox="824 995 1105 1211">ETBS2023_JUIT_292</td> <td data-bbox="1105 995 1333 1211">Mohd Mazin Jameel, Zenab Aamir, Mohd Wajid and, Mohammed Usman</td> </tr> <tr> <td data-bbox="500 1211 824 1425">Generation Cost Minimization in Microgrids Using Optimization Algorithms</td> <td data-bbox="824 1211 1105 1425">ETBS2023_JUIT_053</td> <td data-bbox="1105 1211 1333 1425">Upasana Lakhina, I. Elamvazuthi, N Badruddin, Ajay Jangra, Truong Hoang Bao Huy and Josep M. Guerrero</td> </tr> </tbody> </table>	Title	Paper ID	Author(s)	A 233-bit Elliptic Curve Processor for IoT Applications	ETBS2023_JUIT_036	Deepak Panwar, Sumit Singh Dhanda, Kuldeep Kaswan, Pardeep Singh and Savita Kumari	Signal Processing for Language Sanitization: Detection and Censorship of Obscene Words in Speech Recordings	ETBS2023_JUIT_292	Mohd Mazin Jameel, Zenab Aamir, Mohd Wajid and, Mohammed Usman	Generation Cost Minimization in Microgrids Using Optimization Algorithms	ETBS2023_JUIT_053	Upasana Lakhina, I. Elamvazuthi, N Badruddin, Ajay Jangra, Truong Hoang Bao Huy and Josep M. Guerrero	Sh. Prateek, Dr. Shubham Goel, Sh. Vineet Paliwal
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Generation Cost Minimization in Microgrids Using Optimization Algorithms	ETBS2023_JUIT_053	Upasana Lakhina, I. Elamvazuthi, N Badruddin, Ajay Jangra, Truong Hoang Bao Huy and Josep M. Guerrero													
	Session – 5	<p>Session chair :Dr. Ravindara Bhatt, Dr. Amol Vasudeva, Dr. Hari Singh Rawat, Dr. Abhilasha Sharma</p> <p style="text-align: center;">Venue : TR6</p> <table border="1" data-bbox="500 1612 1333 1845"> <thead> <tr> <th data-bbox="500 1612 824 1692">Title</th> <th data-bbox="824 1612 1105 1692">Paper ID</th> <th data-bbox="1105 1612 1333 1692">Author(s)</th> </tr> </thead> <tbody> <tr> <td data-bbox="500 1692 824 1845">Phylogenetic Study of Surface Glycoprotein (S1 spike protein) Sequence of SARS-CoV-2 Virus</td> <td data-bbox="824 1692 1105 1845">ETBS2023_JUIT_125</td> <td data-bbox="1105 1692 1333 1845">Dr. R S Upendra, Sanjay Shrinivas Nagar, Preetham R S, Sanjana</td> </tr> </tbody> </table>	Title	Paper ID	Author(s)	Phylogenetic Study of Surface Glycoprotein (S1 spike protein) Sequence of SARS-CoV-2 Virus	ETBS2023_JUIT_125	Dr. R S Upendra, Sanjay Shrinivas Nagar, Preetham R S, Sanjana	Dr. Nafisuddin Khan, Dr. Harsh Sohal, Sh. Shiv K Gupta						
Title	Paper ID	Author(s)													
Phylogenetic Study of Surface Glycoprotein (S1 spike protein) Sequence of SARS-CoV-2 Virus	ETBS2023_JUIT_125	Dr. R S Upendra, Sanjay Shrinivas Nagar, Preetham R S, Sanjana													



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				Mathias, Hiba Muskan, and Ananya R
		Identification and Classification of Intestinal Parasitic Eggs in Animals through Microscopic Image Analysis	ETBS2023_JUIT_249	Ketan Mishra, Kavitha C and Devi Kannan
		Financial Technology and Competitive Landscape in the Banking Industry of Bangladesh: An Exploratory Focus	ETBS2023_JUIT_096	Nargis Sultana, Kazi Saifur Rahman, Reshma Pervin Lima, Shakil Ahmad
		Wireless Communication: Exploring Fuzzy Logic Techniques and Applications	ETBS2023_JUIT_285	Dr. YogeeshN, Dr. Girija D.K, Dr. Rashmi M, Dr. P. William

Day II: Tuesday, 16th May 2023

Time	Activity	Speaker / Session Chair	Theme / Track	Moderator
09:30 am – 10:15 am	Keynote 4	Professor Sharath Sriram <i>Coordinator, Functional Materials and Microsystems Research Group, RMIT University, Melbourne, Australia.</i>	Topic: Convergence of materials, medicine and design to transform electronics into products (http://meet.google.com/drv-qkpb-kvy) Venue : CL10	Mr. Munish Sood, Mr. Ravi Raina
10:15am-10:30am	Tea-Break			
10:30 am- 12:00pm	Session – 6	Session Chair : Prof. Sunil Khah, Dr. Naveen Jaglan, Dr. Salman Raju, Dr. Kushal Kanwar	Venue : TR5	Lt. Pragya Gupta, Sh. Munish Sood, Dr. Ajay

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		Title	Paper ID	Author(s)	
		Computational Studies of Phytochemicals from Allium Sativum with H7N9 Subtype in Avian Influenza	ETBS2023_JUIT_189	Brishti Mandal, Avinect Singh, Cheena Dhingra, Hina Bansal and Seneha Santoshi	
		Triple-Band Gap Coupled 4×4 MIMO Antenna in mm- Wave for High Data Rate and IoT Applications	ETBS2023_JUIT_228	Rakesh N. Tiwari, Prabhakar Singh, and Partha Bir Barman	
		Security Challenges and Applications for Digital Transactions using Blockchain Technology	ETBS2023_JUIT_227	Prateek Dang and Himanshu Gupta	
		Multilingual Emotion Recognition from Continuous Speech using Transfer Learning	ETBS2023_JUIT_092	Karanjaspreet Singh, Lakshita Sehgal and Naveen Aggarwal	
Session –7	Session Chair : Dr. Harsh Sohal, Dr. Emjee Puthooran, Dr. Poonam Sharma, , Dr. Monika Bharti Venue : TR6				Sh. Arvind Kumar, Dr. Rakesh Kanji, Mr. Kamlesh
		Title	Paper ID	Author(s)	
		On Parameterized Picture Fuzzy Discriminant Information Measure in Medical Diagnosis Problem	ETBS2023_JUIT_011	Monika, Aman Sharma, and Rakesh Kumar Bajaj	
		Image Denoising Framework employing AutoEncoders for Image Reconstruction	ETBS2023_JUIT_083	Shruti Jain, Himanshu Jindal, Monika Bharti	



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		Secure Authentication Scheme for IoT Enabled Smart Homes	ETBS2023_JUIT_290	Neha Sharma, Pankaj Kumar	
		A Comparative Survey on Histogram Equalization Techniques for Image Contrast Enhancement	ETBS2023_JUIT_169	Anju Malik and Nafis Uddin Khan	
		Neural network based CAD system for the classification of textures in Liver ultrasound images	ETBS2023_JUIT_163	Anjna Kumari, Nishant Jain, Vinod Kumar	
12:00pm–01:00 pm	Keynote 5	Ashish P. Kuvelkar <i>Senior Director (HPC-Tech) C-DAC, Pune</i>	Topic: Next generation Computational Technologies (http://meet.google.com/drv-qkpb-kvy) Venue : CL10	Lt Pragya Gupta, Mr. Ravi Raina	
01:00pm- 02:00 pm	Lunch				
02:00pm-03:00pm	Keynote 6	Prof. Ram Bilas Pachauri <i>Electrical Engineering Department, IIT Indore, Madhya Pradesh, India.</i>	Topic: Multivariate signal processing and machine learning for computer-aided medical diagnosis (http://meet.google.com/drv-qkpb-kvy) Venue : CL10	Dr. Pradeep Garg, Mr. Ravi Raina	
03:00 pm–03:45pm	Keynote 7	Ms. KamiyaKhatler <i>Editor - Applied Sciences & Engineering Springer - a part of Springer Nature</i>	Topic: Scientific writing (http://meet.google.com/drv-qkpb-kvy) Venue : CL10	Dr. Monika Jindal, Mr. Ravi Raina	
03:45-04:00 pm	Tea-Break				



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04:00 pm -05:00pm	Session – 8	Session Chair : Prof. Sudhir Kumar, Dr. Jata Shankar, Dr. Tiratha Raj Singh, Dr. Simran Sethia			Dr. Aman Sharma, Dr. Amol Vasudeva, Mr. Deep Narayan Tripathi
		Venue : TR5			
		Title	Paper ID	Author(s)	
		Performance Analysis of Blockchain Technology to Protect Data Access using Intelligent Contract Mechanism for 5G Networks	ETBS2023_JUIT_280	Dr. P. William, Dr. Yogeesh N, Dr. Girija D.K, Dr. Rashmi M, Dr. Nikhil Marriwala	
		Alternate Least Square And Root Polynomial Based Colour-Correction Method For High Dimensional Environment	ETBS2023_JUIT_049	Geetanjali Babbar, Rohit Bajaj	
		Improved Hybrid Similarity for Clustering of Text Documents using GA	ETBS2023_JUIT_236	Deepak Ahlawat, Sharad Chauhan, Amodh Kumar	
		Power of Image-based Digit Recognition with Machine Learning	ETBS2023_JUIT_153	Vipasha Abrol, Nitika, Hari Gobind Pathak, and Aditya Shukla	
	IoT for Emerging Engineering Application Related to Commercial System	ETBS2023_JUIT_242	Vivek Veeraiah, Shahanawaj Ahamad, Vipin Jain, Rohit Anand, Nidhi Sindhwani, Ankur Gupta		
	Session – 9	Session Chair : Dr. Jitendra Vashist, Dr. Nafisuddin Khan, Dr. Alok Kumar, Dr. Deepak Gupta, Dr. Rakesh Kanji			Dr. Pankaj Dhiman, Dr. Amit Kumar, Sh. Shambhu Nath
		Venue : TR6			
	Title	Paper ID	Author(s)		

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		Machine learning and Deep networks for additive wafer defect detection: A concise study	ETBS2023_JUIT_294	Bandana Pal, Nidhi Goel	
		Implementation of machine learning algorithms for cardiovascular disease prediction	ETBS2023_JUIT_220	Anjali Sharma, Cheena Dhingra, Ankur Chaurasia, Seneha Santoshi, Hina Bansal	
		Performance Evaluation of Ensemble Classifiers for Anomaly Detection in IoT Environment	ETBS2023_JUIT_298	Aishwarya Vardhan, Prashant Kumar and L.K. Awasthi	
	Session -10	Session Chair: Dr. Ruchi Verma, Dr. Ekta Gandotra, Dr. Shubham Goel Venue : TR7			Dr. Shweta Pandit, Dr. Alok Kumar, Sh. Vijay Kumar
		Title	Paper ID	Author(s)	
		Fuzzy Vendor - Buyer Trade Credit Inventory Model-Pentagonal Numbers In Permissible Limits Delay In Account Settlement With Supervised Learning	ETBS2023_JUIT_021	Dr. K. Kalaiarasi, S.Swathi, Dr. Sardar M. N. Islam (Naz)	
		Impact of Covid- 19 and Subsequent Usage of IoT	ETBS2023_JUIT_065	Sakshi Sharma, Veena Sharma, Vineet Kumar	
		Review on Deep Learning-based Classification Techniques for Cocoa Quality Testing	ETBS2023_JUIT_099	Richard Essah, Darpan Anand and Abhishek Kumar	
		Automatic Detection of Coagulation of Blood in Brain using Deep Learning Approach	ETBS2023_JUIT_117	B.Ashreetha, A.Harshith, A.SaiRamCharan, A.Janardhan, A.Abhiram,	

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				B.Rajeshreddy	
		Ensuring Security of data through Transformation based Encryption Algorithm in Image Steganography	ETBS2023_JUIT_195	Sushil Kumar Narang, Vandana Mohindru Sood, Vaibhav, Vania Gupta	
		Comparative Performance Analysis of Present Lightweight Cipher for Security Applications in Extremely Constrained Environment	ETBS2023_JUIT_230	Shipra Upadhyay, Pulkit Singh Parihar, Amit Kumar Pandey, Arman Ali , Jyoti Kumari, Ashutosh Jujare, Shailendra Kumar and Akshay	

Day III: Wednesday, 17th May 2023

Time	Activity	Speaker / Session Chair	Theme / Track	Moderator		
09:30 am – 10:30 am	Keynote 8	Prof. Sanjeev Narayan Sharma <i>Dean Academics, IITDM, Jabalpur, Madhya Pradesh, India.</i>	Topic: From Bio to Genomic Signal Processing Venue : LT2	Dr. Sunil Datt Shrama, Mr. Ravi Raina		
10:30am-10:45am	Tea-break					
10:45am- 12:00pm	Session – 11	Session Chair : Dr. Hemant Sood, Dr. Rahul Srivastava, Dr. Udaybanu M Venue : TR5		Dr. Hari Singh Rawat , Dr. Ekta Gandotra, Mr. Ravi Raina		
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		Realization of fractional order low pass filter using Differential Voltage Current Conveyor (DVCC)	ETBS2023_JUIT_245	Sukanya Deshamukhya, Shalabh Kumar Mishra and Bhawna Aggarwal	
		Diagnosis of Mental Health from Social Networking Posts: An Improved ML-based Approach	ETBS2023_JUIT_054	Rohit Kumar Sachan, Ashish Kumar, Darshita Shukla, Archana Sharma, and Sunil Kumar	
		PICO Classification using Domain-specific Features	ETBS2023_JUIT_200	Sanjeet Singh and Aditi Sharan	
		OPTIMIZED DETECTION OF OVARIAN CANCER USING SEGMENTATION WITH FR-CNN CLASSIFICATION	ETBS2023_JUIT_214	Mr.VivekanandAelgani , Dr. DhanalaxmiVadlakonda	
		Design of Battery Monitoring System for Converted Electric Cycles	ETBS2023_JUIT_075	T. Dinesh Kumar, M. A. Archana, K. Umopathy, H. Rakesh, K. Aakkash, B. R. Shreenidhi	
		Soil Monitoring Robot for Precision Farming	ETBS2023_JUIT_029	K. Umopathy, S. Omkumar, T. Dineshkumar, M. A. Archana, M. Sivakumar	
	Session –12	Session Chair : Dr. Vineet Sharma, Dr. Anil Kant, Dr. Ragini, Dr. Surajit Hazra			Dr. Salman Raju Talluri, Dr. Deepak Gupta, Sh. Mohan Sharma
		Venue : TR6			
		Title	Paper ID	Author(s)	
		Storage and Organization of Geospatial Data in Distributed Blockchain using IPFS	ETBS2023_JUIT_250	Shivanshu Singh, Ayush Tah, and Sanjib Saha	

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		An Automatic Parkinson's Disease classification System using Least Square Support Vector Machine	ETBS2023_JUIT_052	Priyanshu Khandelwal, Kiran Khatter and DevanjaliRelan	
		Enhancing Biometric Performance through Mitigation of Sleep-Related Breaches	ETBS2023_JUIT_160	Urmila Pilania, Manoj Kumar, Sanjay Singh, Yash Madaan, Granth Aggarwal, Vaibhav Agrawal	
		Numerical Simulation and Modeling of Improved PI Controller Based DVR for Voltage Sag Compensation	ETBS2023_JUIT_042	Vijeta Bhukar, Ravi Kumar Soni	
		Development and Analysis of Malaria Vector by Mathematical Modeling	ETBS2023_JUIT_244	Naresh Kumar Jothi, and Lakshmi A	
		SERVER ACCESS PATTERN ANALYSIS BASED ON WEBLOGS CLASSIFICATION METHODS	ETBS2023_JUIT_086	Shirish Mohan Dubey, Geeta Tiwari and PriushaNarwaria	
	Session –13	Session Chair : Dr. Neelkanth, Dr. Amit Kumar, Dr. Shweta Pandit, Dr. Sanjiv Kumar Tiwari Venue : TR7			Dr. Monika Bharti Jindal, Dr. Vipul Kumar Sharma, Ms. Jyotsna
		A DEEP NEURAL NETWORK FOR IMAGE CLASSIFICATION USING MIXED ANALOG AND DIGITAL	ETBS2023_JUIT_296	Dr. R. Kala, Dr. M. Poomani Alias Punitha, P. G. Banupriya, Dr. B. Veerasamy, Ms. B. Bharathi, Dr. A. Ahilan, Dr. Jafar Ahmad Abed Alzubi	

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		INFRASTRUCTURE		
		Design of Energy-Efficient Approximate Arithmetic circuits for Error Tolerant Medical Image Processing Applications	ETBS2023_JUIT_306	A. Ahilan, A. Albert Raj, Anusha Gorantla, R. Jothin, M. ShunmugaThammal, Ghazanfar Ali Safdar
		Skin Cancer Diagnosis Using High-Performance Deep Learning Architectures	ETBS2023_JUIT_307	A. Bindhu, Dr. A. Ahilan, Dr. S. Vallisree, Dr. P.MariaJesi, Dr. Muthu Kumar B, Dr. Nikhil Kumar Marriwala, Dr. AznulQalid Md Sabr
		Comparative Analysis of Hardware and Software utilization in the implementation of 4-Bit Counter using different FPGAs Families	ETBS2023_JUIT_026	Shishir Shrivastava, Amanpreet Kaur
		Video Surveillance-Based Intrusion Detection System in Edge Cloud Environment	ETBS2023_JUIT_309	Annu Sharma, Deepa Devasenapathy, M. Raja, Finney Daniel Shadrach, Anil Shirgire, R. Arun, A. Ahilan, Thomas Moh Shan Yau
		Health Care DNS Tunnelling Detection Method via Spiking Neural Network	ETBS2023_JUIT_310	Dr. Narendra Kumar, Dr. R. Surendiran, Dr. G. K. Jabash Samuel, N. Bhavana, Dr. Anil Shirgire, Dr. A. Jasmine Gnana Malar and Dr. AznulQalid



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12:00pm-01:00pm	Valedictory				