

**IEEE GCON-2023 : Technical Program Schedule**

Venue: Conference Center, IIT Guwahati, 23-25 June 2023

Date	Time	Hall 1	Hall 2	Hall 3	Hall 4
23/06/23 Friday	9:00 - 9:30	Registration [Conference Center Lobby]			
	9:30 - 11:00		<b>Tutorial I:</b> Prof. Ratnajit Bhattacharjee IIT Guwahati Title: <b>Wireless communication in the millimeter wave band Opportunities and Challenges</b>  Session Chair: Dr. Salil Kashyap	<b>Tutorial II:</b> Dr. Bidyut kr. Patra IIT (BHU), Varanasi Title: <b>Introduction to Recommender System and Its Recent Trends</b>  Session Chair: Dr. S. Ranbir Singh	
	11:00 - 11:15	Tea Break [Conference Center Lobby]			
	11:15 - 12:30		<b>Tutorial I</b> contd.	<b>Tutorial II</b> contd.	
	12:30 - 13:30	Lunch Break [Conference Center Lobby]			
	13:30 - 15:00		<b>Tutorial III:</b> Prof. Sugata Gangopadhyay IIT Roorkee Title: <b>Introduction to Quantum Computing</b>  Session Chair: Prof. Sukumar Nandi	<b>Tutorial IV:</b> Dr. R Lenin Raja VP-Engineering, AAEMT Laboratory Pvt. Ltd. Title: <b>Recent Technologies changes in IoT &amp; 5G implementations and It's Industrial Market Demands</b>  Session Chair: Dr. Moumita Patra	
	15:00 - 15:15	Tea Break [Conference Center Lobby]			
	15:15 - 16:30		<b>Tutorial III</b> contd.	<b>Tutorial IV</b> contd.	
	16:40 - 17:10	GCON-2023 : Inauguration [Hall 2]			
	17:10 - 18:00	<b>Keynote - I [Hall 2]</b> Speaker: Prof. V. Ramgopal Rao Vice Chancellor BITS Pilani & Former Director, IIT Delhi Title: <b>Leveraging the National Semiconductor Mission to Promote Deep-technology Innovations in Academia</b>  Session Chair: Prof. T. Venkatesh			
	18:00 - 18:20	Tea Break [Conference Center Lobby]			
	18:20 - 19:00		IEEE GSS GBM/EXCOM		
24/06/23 Saturday	8:30 - 9:00	Registration [Conference Center Lobby]			
	9:00 - 10:30	Tech Session 1A <b>Artificial Intelligence-I</b> PIDs: 39, 56, 86, 49, 64, 111  Session Chair: Dr. Aparajita Dutta	Tech Session 1B <b>Green and Renewable Technology</b> PIDs: 41, 67, 89, 97, 118, 133  Session Chair: Dr. Sreenath J. G.	Tech Session 1C <b>Nanotechnology and VLSI</b> PIDs: 26, 35, 44, 85, 121, 40  Session Chair: Dr. Manojit Ghose	9:00 AM A Case study on Indigenous Solutions for Atmanirbhar Bharat Speaker: Maj. Nishant Mohan, Indian Army  9:40 AM Finals of Vegathon - VEGA processor based Hackathon Event Coordinator: Mr. Libin T.T
	10:30 - 10:50	Tea Break [Conference Center Lobby]			
	10:50 - 11:40	<b>Keynote - II [Hall 2]</b> Speaker: Dr. Sandipan Sarkar Global Technology Executive, IBM Honourary Member, Industry Advisory Board, IIM Bodh Gaya Title: <b>Modern Data Architecture</b>  Session Chair: Prof. Ashish Anand			
	11:40 - 12:40	Tech Session 2A <b>Signal Processing and Multimedia</b> PIDs: 16, 17, 65, 181  Session Chair: Dr. Suresh Sundaram	Tech Session 2B <b>Control, Power, Energy, Power Electronics-I</b> PIDs: 149, 154, 179, 36  Session Chair: Dr. Chayan Bhawal	Tech Session 2C <b>Communication and Networks</b> PIDs: 5, 84, 108, 172  Session Chair: Dr. Kuntal Deka	<b>Vegathon - Finals continued.</b>
	12:40 - 13:50	Lunch Break [Conference Center Lobby]			
	13:50 - 14:40	<b>Keynote - III [Hall 2]</b> Speaker: Prof. Sukumar Mishra Professor, IIT Delhi Title: <b>GFL to GFM: A paradigm shift in the context of renewable rich microgrid</b>  Session Chair: Dr. A. Ravindranath			
	14:40 - 15:00	Tea Break [Conference Center Lobby] + Vegathon Demo			
	15:00 - 16:00	<b>Industry Forum Talks [Hall 2]</b> Talk 1 Title: <b>Intelligent Process Automation with AI and Data</b> Debanjana Dasgupta Executive IT Architect, IBM Consultancy  Talk 2 Title: <b>Emergence of DIR-V Ecosystem : VEGA Microprocessors</b> S. Krishnakumar Rao Senior Director and Head, Hardware Design Group, C-DAC, Trivandrum  Session Chair: Dr. Amit Awekar			
	16:00 - 17:00	Panel Discussion [Hall 2] Theme: <b>Emerging Technologies and their Role in Sustainable Growth</b> Panelists: Ms. Debanjana Dasgupta (IBM), Mr. S. Krishnakumar Rao (C-DAC), Maj. Nishant Mohan (Indian Army).  Moderator: Dr. John Jose			

	17:00 - 17:30	Tea Break [Conference Center Lobby]			
	17:30 - 18:30	<p style="text-align: center;">Banquet Talk <b>[Hall 2]</b>  Speaker: Mr. Sumit Goswami  Chair of Qualcomm India Academic Council  Executive Senior Director Of Engineering, Qualcomm  Talk Title: <b>Achieving Power Efficiency On Device AI</b></p> <p style="text-align: center;">Session Chair: Prof. Hemangee K. Kapoor</p>			
	18:30 - 20:00	Cultural Program <b>[Mini Auditorium]</b>			
	20:00	Banquet Dinner [Conference Center Lobby]			
25/06/23 Sunday	8:30 - 9:00	Registration [Conference Center Lobby]			
	9:00 - 10:30	<p style="text-align: center;">Tech Session 3A  <b>Machine Learning</b>  PIDs: 148, 63, 38, 69, 93, 96</p> <p style="text-align: center;">Session Chair: Dr. Prithwiji Guha</p>	<p style="text-align: center;">Tech Session 3B  <b>Networks, Security and Privacy</b>  PIDs: 159, 171, 25, 48, 124, 152</p> <p style="text-align: center;">Session Chair: Dr. Chiranjoy Chattopadhyay</p>	<p style="text-align: center;">Tech Session 3C  <b>Control, Power, Energy, Power Electronics-II</b>  28, 53, 74, 90, 95, 132</p> <p style="text-align: center;">Session Chair: Dr. Praveen Tripathy</p>	<p style="text-align: center;"><b>Student Research Forum</b></p> <p style="text-align: center;">Session Chair: Dr. Rishikesh Kulkarni</p>
	10:30 - 10:50	Tea Break [Conference Center Lobby] + SRF Poster Presentation			
	10:50 - 11:40	<p style="text-align: center;"><b>Keynote - IV [Hall 2]</b>  Speaker: Prof. Krishna Moorthy Sivalingam  Insititue Chair Professor, IIT Madras  Title: <b>On Programmable Data Plane Network Switches and their Applications</b></p> <p style="text-align: center;">Session Chair: Prof. Diganta Goswami</p>			
	11:50 - 12:40	<p style="text-align: center;"><b>Keynote - V [Hall 2]</b>  Speaker: Prof. Ajit Kumar Chaturvedi  Professor, IIT Kanpur &amp; Former Director, IIT Roorkee  Title: <b>Deep Learning for Wireless Communications</b></p> <p style="text-align: center;">Session Chair: Dr. Sonali Chouhan</p>			
	12:40 - 13:50	Lunch Break [Conference Center Lobby] + SRF Poster Session			
	13:50 - 15:10	<p style="text-align: center;">Tech Session 4A  <b>Artificial Intelligence-II</b>  PIDs: 127, 128, 113, 125, 162</p> <p style="text-align: center;">Session Chair: Dr. Anirban Dasgupta</p>	<p style="text-align: center;">Tech Session 4B  <b>Computer Architecture and Machine Learning</b>  PIDs: 43, 106, 123, 176</p> <p style="text-align: center;">Session Chair: Dr. Aryabartta Sahu</p>	<p style="text-align: center;">Tech Session 4C  <b>IoT and Networks</b>  PIDs: 52, 160, 66, 117, 174</p> <p style="text-align: center;">Session Chair: Dr Manas Khatua</p>	
	15:10 - 15:30	Tea Break [Conference Center Lobby]			
	15:30 - 16:00	Valedictory Session			
	<b>Details of the Technical Session in the Next Page</b>				

## Details of The Parallel Technical Programs at IEEE GCON'23

Each paper will have a 12-minute presentation and a 3-minute Q&A.

Track	Paper ID	Paper Title	Author Details
<b>Session 1A: Artificial Intelligence-I</b> 24.06.2023 09:00 to 10:30 [Hall 1]	39	Translation of Low Illumination On-road Images to Well Illuminated Ones for Assisting Driving using Deep Auto-Encoders	Rohit R (IIT Guwahati ); Ravindra Kumar (IIT Guwahati); Anirban Dasgupta (IIT Guwahati)
	56	Improving Semantic Segmentation Performance of Deep Networks for Autonomous Driving through Loss Functions	Saquib Mazhar (IIT Guwahati)*; Nadeem Atif (IIT Guwahati); M K Bhuyan (IIT Guwahati ); Rafi Ahamed (IIT Guwahati)
	86	Deep Learning-based approach for Indian License Plate Recognition using Optical Character Recognition	Atharvraj Sunil Patil (College of Engineering, Pune)*; Jayesh Ingale (College of Engineering, Pune); Suhas M Kakade (College of Engineering, Pune); Abhishek Bhatt (Symbiosis Skill and professional University); Aditya Upadhye (College of Engineering, Pune); Sakshi Jaiswal (College of Engineering Pune )
	49	PROSODY-VC: Voice style transfer with speech prosody	Arunava Kr Kalita (IIITG)*;Rusha Patra
	64	A Novel Pipeline for Improving Optical Character Recognition through Post-processing Using Natural Language Processing	Aishik Rakshit (IIT Guwahati); Samyak Sanjay Mehta (IIT Guwahati); Anirban Dasgupta (IIT Guwahati)*
	111	Development of the Co-reference Resolution Tagged Data set in Assamese @ A Semi-Automated Approach	Mridusmita Das (Central Institute of Technology Kokrajhar)*; Apurbalal Senapati (CIT Kokrajhar)
<b>Session 1B: Green and Renewable Technology</b> 24.06.2023 09:00 - 10:30 [Hall 2]	41	Complementary-Bowtie-Aperture Inspired Wearable Metasurfaces for boosting SNR in 1.5T MRI systems	JEGYASU GUPTA (Indian Institute of Technology Guwahati Assam)*; Ratnajit Bhattacharjee (IIT Guwahati); Subramani Kanagaraj (Indian Institute of Technology Guwahati Assam); Rajesh Harsh (Scientist at SAMEER, Mumbai); Debabrata Sikdar (IIT Guwahati)
	67	Study of an air-activated flat vertical axis wind turbine	Dhriti Rudrapal (The ICFAI University Tripura); Shantanu Acharya (The ICFAI University, Tripura)*
	89	Small Signal Stability Analysis of PMSG based WECS equipped with Resistive type Superconducting Fault Current Limiter	Mansi Singh (IIT(ISM) Dhanbad)*; Kalyan Chatterjee (IIT(ISM) Dhanbad)
	97	Simulation Study of Solar Photovoltaic-Thermal System	Rohan S Kulkarni (College of Engineering Tech. University, Pune)*; Sanjay Dambhare (COEP Tech University); Dhnanjay Balu Talange (COEP); Suhas M Kakade (College of Engineering, Pune)
	118	Modeling and Simulation of Photovoltaic Module with Electrothermal Devices	Rohan S Kulkarni (College of Engineering Tech. University, Pune)*; Suhas M Kakade (College of Engineering, Pune); Vijay Marathe (VIIT, Pune)
	133	Optimal Positioning of Distributed Generation Based on its Penetration Using Backward-Forward Sweep Method	Vipin K Azad (NIT Mizoram)*; Krishnarti De (NIT MIZORAM ); Suman Majumder (NIT MIZORAM )
<b>Session 1C: Nanotechnology and VLSI</b> 24.06.2023 09:00 - 10:30 [Hall 3]	26	High-Q resonating all-dielectric metamaterial for refractive index sensing	Bhairav Kumar Bhowmik (Indian Institute of Technology Guwahati)*; Tanmay Bhowmik (Indian Institute of Technology Guwahati); Pranav Pandey (3Space Application Centre, Indian Space Research Organization (ISRO), Ahmedabad, Gujarat); Debabrata Sikdar (IIT Guwahati); Gagan Kumar (IIT Guwahati, Assam, India)
	35	First Principle based Studies for Efficient NO <sub>2</sub> Gas Sensors on MoSe <sub>2</sub> and WSe <sub>2</sub>	Priyakshi Kalita (Tezpur University)*; Asifa Khatun (Tezpur University); Biplob Mondal (Tezpur University)
	44	Tunable Metasurface based Polarization-insensitive Electro-Optic Amplitude Modulator for Nanophotonic Systems	Tanmay Bhowmik (Indian Institute of Technology Guwahati)*; JEGYASU GUPTA (Indian Institute of Technology Guwahati Assam ); Bodhan Chakraborty (Indian Institute of Technology Guwahati); ASHISH KUMAR CHOWDHARY (Nanyang Technological University, Singapore); Debabrata Sikdar (IIT Guwahati)
	85	Plasmonic Metamaterial Perfect Absorber using Hybrid Split Cross-Ring Nanostructures	Bodhan Chakraborty (Indian Institute of Technology Guwahati)*; Tanmay Bhowmik (Indian Institute of Technology Guwahati); JEGYASU GUPTA (Indian Institute of Technology Guwahati Assam ); Dibaskar Biswas (Indian Institute of Technology Guwahati); Debabrata Sikdar (IIT Guwahati)
	121	Epsilon-Near-Zero Material based C-Band Electro-absorption Modulator for Integrated Nanophotonic Systems	Dibaskar Biswas (Indian Institute of Technology Guwahati)*; Sourodipto Das (Indian Institute of Technology Guwahati); Tanmay Bhowmik (Indian Institute of Technology Guwahati); JEGYASU GUPTA (Indian Institute of Technology Guwahati Assam ); Debabrata Sikdar (IIT Guwahati)
	40	ReMCOO: An Efficient Representation of Sparse Matrix-Vector Multiplication	Uditnarayan Mandal (KIIT University); Arighna Deb (KIIT University)
16	Anisotropic Diffusion-Based Contrast Enhancement of Frontal Facial Thermograms to Extract the Facial Vasculature	Anirban Dasgupta (IIT Guwahati)*; Anushree Basu (Boeing India Pvt. Ltd.)	

<b>Session 2A: Signal Processing and Multimedia</b> 24.06.2023 11:40 - 12:40 [Hall 1]	17	A Pulse-Width Modulation Model of Respiratory Signatures Obtained Through Facial Thermograms	Anirban Dasgupta (IIT Guwahati)*; Anushree Basu (Boeing India Pvt. Ltd.)
	65	Impact of Reference Microphone Selection on Binaural Cue Preservation for Directional Sources in Multi-microphone Hearing Aids	Deep Baruah (Indian Institute of Information Technology Guwahati); Sauravjyoti Senchowa (Indian Institute of Information Technology Guwahati); Bijit Kumar Das (IIIT Guwahati)*
	181	Vision Sensing based People Following Robot: A Superpixel Augmented Density based Clustering Approach	PRITAM PARAL (IIEST Shibpur)*
<b>Session 2B: Control, Power, Energy, Power Electronics-I</b> 24.06.2023 11:40 - 12:40 [Hall 2]	149	Adaptive Filter Based Control Method for Performance Improvement of Hybrid Energy Storage System in DC Microgrid	Biks Alebachew Taye (NIT Silchar)*
	154	An Effective Filter Design for Single-Phase Inverters	Yaheya Al Aman (Tezpur University); ASIM DATTA (Tezpur University)*
	179	Power consumption of a quadrotor based on maneuvers	Paraj Ganchaudhuri (Indian Institute of Technology Guwahati)*; Chayan Bhawal (Indian Institute of Technology Guwahati)
	36	An enhanced human conception optimization algorithm based optimal 2-DoF-PID controller for Artificial Respiratory Ventilation System	Debasis Acharya (NATIONAL INSTITUTE OF TECHNOLOGY, NAGALAND)*; Dushmanta Kumar Das (NATIONAL INSTITUTE OF TECHNOLOGY, NAGALAND)
<b>Session 2C: Communications and Networks</b> 24.06.2023 11:40 - 12:40 [Hall 3]	5	Peak-To-Average Power Ratio Analysis For Embedded Pilot And Superimposed Pilot Aided OTFS Waveform	SWETA KUMARI (IIT ISM DHANBAD)*; HIMANSHU MISHRA (IIT ISM); Samrat Mukhopadhyay (IIT (ISM) Dhanbad)
	84	Metasurface based Polarization-Insensitive Reflection mode Band-reject Filters for 6G Applications	Souropto Das (Indian Institute of Technology Guwahati)*; JEGYASU GUPTA (Indian Institute of Technology Guwahati Assam ); Tanmay Bhowmik (Indian Institute of Technology Guwahati); Bodhan Chakraborty (Indian Institute of Technology Guwahati); Debabrata Sikdar (IIT Guwahati)
	108	Secure Image Encryption using a New Bowl-shaped Chaotic Attractor.	Shilalipi Sahoo (NIT Silchar)*; Samuel A Gebereselasie (National Institute of Technology Silchar); Ankit Tiwari (National Institute of Technology Silchar); Binoy Krishna Roy (NIT Silchar)
	172	Characterization of 'Early Career Stage' Researchers from their Co-authorship Network	Angshuman jana (IIIT guwahati)*; Avijit Gayen (Techno India University); Tamoghna Mukherjea ( Techno India University)
<b>Session 3A: Machine Learning</b> 25.06.2023 09:00 - 10:30 [Hall 1]	148	Automatic License Plate Detection and Recognition System for Security Purposes	Debajit Sarma (IIT Guwahati)*; Anindita Bora (TIH IITG TIDF); Atul Bhagat (IIT Guwahati)
	63	A Neural Network based Approach to Compute Text Readability Using Visual Features	Sangita Saha (CIT Kokrajhar); Apurbalal Senapati (CIT Kokrajhar); Ranjan Dr. Maity (Central Institute of Technology Kokrajhar)*
	38	Object Detection Based Approaches in Image Classification: A Brief Overview	Akshima Aggarwal (Chandigarh University)*; Vaneet Kumar (Chandigarh University); Ruchika Gupta (Chandigarh University)
	69	Explainable AI for Bearing Fault Detection Systems: Gaining Human Trust	APARNA SINHA (IIIT NAYA RAIPUR)*; Shaik Fayaz Ahmed (IIIT NAYA RAIPUR); Debanjan Das (IIIT Naya Raipur)
	93	A Multiple Criteria Decision Making Approach for Ranking Cricket Captains	Nayan Ranjan Das (Indian Institute of Information Technology Kalyani)*; Imon Mukherjee (IIIT Kalyani); Goutam Paul (Indian Statistical Institute Kolkata); Ratna Priya (Indian Institute of Information Technology Kalyani)
	96	Traffic Prediction Using Graph Neural Network	Lakshman Sri S V (Sri Ramakrishna Engineering College)*; Karthick A, Akash S, Dr. R. Anuradha
<b>Session 3B: Networks, Security and Privacy</b> 25.06.2023 09:00 - 10:30 [Hall 2]	159	Secure Video Streaming Techniques: A Performance Overview	Sagar Dev Achar (JSS Academy of Technical Education, Bangalore)*; Shankar Singh C (JSS Academy of Technical Education, Bangalore); Thejaswini P ( JSS Academy of Technical Education, Bangalore); Sukumar Nandi (IITGuwahati)
	171	Reverse Engineering techniques for Android systems: A Systematic approach	Hrushik Raj S (JSS Academy of Technical Education, Bangalore)*; Thejaswini P ( JSS Academy of Technical Education, Bangalore); Sukumar Nandi (IITGuwahati)
	25	Fusion of Feature Selection Techniques and Machine learning Algorithms for Attack Classification on 802.11 Wi-Fi AWID Dataset	Sofia Jamil (Indian Institute of Technology Patna); Mayank N Agarwal (Indian Institute of Technology, Patna)*
	48	DGA domain detection using pretrained character based transformer models	Bronjon Gogoi (National Informatics Centre)*; Tasiruddin Ahmed (National Informatics Centre)
	124	Cancelable Biometric Recognition Using Deep Learning Based ResNet50 Model	Manisha Rawat (Marwadi University)*; Shakti M Maheta (Marwadi University)
	152	Encoding of security properties for transparent consent data processing	Ram Govind Mr. Singh (Indian Statistical Institute Kolkata)*
	28	A Non-Iterative Model-Based Intrusion Detection System for AGC System	Sanjoy Debbarma (NIT Meghalaya)*; Siddhartha Deb Roy (NIT Meghalaya); ASIM DATTA (Tezpur University)

<b>Session 3C: Control, Power, Energy, Power Electronics-II</b> 25.06.2023 09:00 - 10:30 [Hall 3]	53	AGC of Hybrid Multiarea Power Systems using AC-AHDC links	Biswanath DekaRaja (NIT SILCHAR)*; LALIT CHANDRA SAIKIA (NIT SILCHAR); Satish Kumar Ramoji (National Institute of Technology Silchar, Assam); Getaneh Mesfin Meseret (NIT Silchar); Manoja Kumar Behera (National Institute of Technology Silchar, Assam); Sanjeev Kumar Bhagat (NIT SILCHAR)
	74	Modified TID Controller for Concerted Voltage and Frequency Control of Two-Area Power System	Satish Kumar Ramoji (National Institute of Technology Silchar, Assam)*; LALIT CHANDRA SAIKIA (NIT SILCHAR); Biswanath DekaRaja (NIT SILCHAR); Manoja Kumar Behera (National Institute of Technology Silchar, Assam); Getaneh Mesfin Meseret (NIT Silchar); Sanjeev Kumar Bhagat (NIT SILCHAR)
	90	Modelling of series and multiple shunt compensators to minimise power losses in Photovoltaic integrated power distribution networks	Vamsi Priya Goli (IIT Guwahati)*; Sanjib Ganguly (IIT Guwahati)
	95	Quasi-predefined-time control and its comparison with nonlinear active control for hybrid synchronization of identical chaotic systems.	Shilalipi Sahoo (NIT Silchar)*; Binoy Krishna Roy (NIT Silchar)
	132	Study of Factors Affecting the Performance of CIGS Based Thin Film Solar Cells	Chubawati Chang (National Institute of Technology Nagaland)*; Sarita Panigrahy (National Institute of Technology Nagaland); Dushmanta Kumar Das (NATIONAL INSTITUTE OF TECHNOLOGY, NAGALAND)
<b>Session 4A: Artificial Intelligence-II</b> 25.06.2023 13:50 - 15:10 [Hall 1]	127	Human Gait Analysis and Activity Recognition: A Review	Neha Gaud (SCSIT DAVV Indore)*; Ugrasen Suman (DAVV Indore); Maya Rathore (Christian Eminent College,Indore)
	128	COVID-19 Waves and Their Impacts to Society	Biswajit R Bhowmik (NIT Karnataka)*; Sunil Kumar (NIT Karnataka)
	113	Transformer-Based Hate Speech Detection in Assamese	KOYEL GHOSH (Central Institute of Techbology, Kokrajhar)*; Debarshi Sonowal (Central Institute of Techbology, Kokrajhar); Abhilash Basumatary (Central Institute of Techbology, Kokrajhar); Bidisha Gogoi (Central Institute of Techbology, Kokrajhar); Apurbalal Senapati (CIT Kokrajhar)
	125	Distributed Feature Representations for Out-of-domain Detection in Dialogue Systems	Rimpa Deka (IIITG); Palash Pratim Dutta (Gauhati University Institute Of Science And Technology); Aparajita Dutta (Indian Institute of Information Technology Guwahati )*
	162	Classification of Power Quality Issues on the Distribution Network Due to Electric Vehicle Charging Using Machine Learning Tool	Ilango Karuppasamy (Amrita School of Engineering, Amrita Vishwa Vidyapeetham)*; Guru Prasath K ( Amrita School of Engineering,Coimbatore, Amrita Vishwa Vidyapeetham); Athish Pranav (Amrita School of Engineering,Coimbatore, Amrita Vishwa Vidyapeetham); Vishnu Sunil (Amrita School of Engineering,Coimbatore, Amrita Vishwa Vidyapeetham); Chandan MN (Amrita School of Engineering,Coimbatore, Amrita Vishwa Vidyapeetham)
<b>Session 4B: Computer Architecture and Machine Learning</b> 25.06.2023 13:50 - 15:10 [Hall 2]	43	FLEXNet: Learning Deep Features Using Autoencoders for Floor Plan Image Retrieval	Rasika Gururaj Khade (Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat); Atharva Kalsekar (Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat); Krupa Jariwala (NIT Surat); CHIRANJOY CHATTOPADHYAY (FLAME UNIVERSITY)*
	106	Transformer based multimodal similarity search method for E-Commerce platforms	jiyoti bharti (MANIT)*; Deepak Singh Tomar (MANIT); Chandan Charchit Sahoo (MANIT)
	123	Application of Error Detection and Correction Techniques to Self-Checking VLSI Systems: An Overview	Sahana A R (JSS Academy of Technical Education, Bangalore)*; Chiraag V (JSS Academy of Technical Education, Bangalore); Gautham Suresh (JSS Academy of Technical Education, Bangalore); Thejaswini P ( JSS Academy of Technical Education, Bangalore); Sukumar Nandi (IITGuwahati)
	176	Memory and CPU utilization-aware Energy-Efficient VM Placement and Consolidation in Cloud Data Centers	Alok Choudhury (Assam Don Bosco University)*; Kaustav Kumar Nath (IIIT Guwahati); Manojit Ghose (IIIT Guwahati); Dr. Yogita Yogita (NIT Meghalaya)
<b>Session 4C: IoT and Networks</b> 25.06.2023 13:50 - 15:10 [Hall 3]	52	Fault-tolerant Mutual Visibility for ASYNC Mobile Robots with Local Coordinate	Subhajit Pramanick (Indian Institute of Technology Guwahati); Partha Sarathi Mandal (Indian Institute of Technology Guwahati)*
	160	Effective Intrusion Detection Model Using Raptor Optimized Deep Convolutional Neural Network	KSHYAMASAGAR MAHANTA (C.V.Raman Global University); Hima Bindu Maringanti (Department of Computer Applications, Maharaja Sriram Chandra Bhanja Deo University, India); pradeepkumar Bhale (Indian Institute Of Technology–Guwahati (IIT–Guwahati))*
	66	Low Cost IoT Based Smart Irrigation System for Potato Cultivation	Shivashish Gour (Assam University)*; Rohit Kumar Kasera (Assam University, silchar); Wangjam Niranjana Singh (Assam University, Silchar); Tapodhir Acharjee (Assam University)
	117	WOMN: WORMhole Attack DetectioN and Mitigation Using Lightweight Distributed IDS in IoT Network	pradeepkumar Bhale (Indian Institute Of Technology–Guwahati (IIT–Guwahati))*; dipojwal Ray (IIT Guwahati); Santosh Biswas (IIT Bhubilai); Sukumar Nandi (IITGuwahati)
	174	Low Overhead Interdependent Source-Channel Coding with Sequence Preservation	saidinesh pola (IIT Guwahati); Sonali Chouhan (Indian Institute of Technology Guwahati)*

Vegathon Finalists	
Team Name	Team Members
Team RoboHacks	Sanket Sharma, Ankit Chaudhary, Kartikay Chiranjeev Gupta
Black Falcon <GeeXpro/>	Deepak, Ankush Singh, Harsh Panday
INGENUITY	Gautham Suresh, Sahana A R, Chiraag V
NityaHeal	Kudupudi Puja Naga Prasanna, Alisha
IllumiFarmers	Varshika, Gunjan Paul, Ayandeep Dutta
DebugSquad	Suberus Heartrisha G, Sumanth Adithya, Charukesh V

Student Reseach Forum Poster Presenters	
Author Name	Title
Manas Barman	BERT-based Healthcare Question Answering System in Assamese Language
Subungshri Basumatary et. al.	Bodo ambiguous word classification using CNN model
Saptak Das et.al.	A machine learning assistance explainable analysis of COVID-19 data of West Bengal
Syam Sankar et.al.	TROP: TRust aware OPportunistic Routing in NoC with Hardware Trojans
Adrin Santhosh et. al.	Implementation of Security Module in Network on Chip
Abhishriya Mahanta et. al	Mathematical Modelling of Mindfulness Meditation and Visual Working Memory
Anand Pandey et al	Effects of thickness and temperature on FASnI3-based perovskite solar cell through device simulation
Pramod Mandal	Investigation on the morphological, structural and optical properties of gallium oxide deposited through RF sputtering method
Meenu Rani Dey	Efficient Detection and Localization of DoS Attacks in Heterogeneous Vehicular Networks