



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

First Day Activity: 23.04.2022

Inaugural Session: NMIC-2022

Meeting link: meet.google.com/pcz-fbwi-npm

2nd International Conference on Nanoelectronics, Machine Learning, Internet of Things & Computing Systems (NMIC-2022)	
Program Details: First Day: 23-04-2022: NMIC-2022	
Members on Virtual Dais NMIC-2022	
<ol style="list-style-type: none">1. Prof. R.P. Yadav, Former Vice-Chancellor Rajasthan Technological University Kota & HAG Professor MNIT Jaipur (Chief Guest)2. Prof. D. K. Yadav, Professor NIT Jamshedpur & President ISVE Ranchi3. Dr. Arun Kumar, Director ECOM RU Ranchi & Chairman ISVE Ranchi4. Dr. J.K. Mandal, Professor Kalyani University Co-Editor of NMIC-2022 (Guest of Honor)5. Dr. A. Srinivasulu, ProVC, K.R. Mangalam University Gurgaon (Guest of Honor)6. Dr. Vijay Nath (BIT Mesra Ranchi), Executive Member ISVE Ranchi & General Chair NMIC-20227. Sh. Samuel Harrison, Design Engineer, ST Microelectronics Singapore- ISVE City Coordinator Singapore Chapter & Invited Speaker 28. Dr. Anand Kumar Thakur(RU), Executive Member ISVE Ranchi & Organizing Secretary NMIC-20229. Dr. Raj Kumar Singh (RU), Executive Member ISVE Ranchi & Convener NMIC-2022	
Inaugural Session Details:	
Time	Activity
10:00am to 10:30am	Welcome by Prof. D. K. Yadav President ISVE Ranchi
10:30 am to 10:50am	Introduction by Dr. Vijay Nath
10:50 am to 11:10am	Program Elaboration by Dr. Raj Kumar Singh
11:10am to 11:50am	Short messages by Eminent persons available on virtual dais
11:50pm to 12:20pm	Keynote Lecture1: Prof. R.P. Yadav Former VC RTU Kota
12:20pm to 12:50pm	Keynote Lecture2: Sh. Samuel Harrison, STMicroelectronics Singapore
12:50pm to 1:00pm	Vote of Thanks by Dr. Anand Kumar Thakur



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1:00pm to 2:00pm	LUNCH
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Important Notes:

There will be two days technical session of NMIC-2022. On 23-04-2022 will be Inaugural session and two technical sessions 1A, 1B and on 24.04.2022 will be four technical sessions 2A, 2B, 2C & valedictory session. All are requested to join the session on time.

Lunch:- 1:00-2:00pm

Technical Session 1: Section A:

Nanoelectronics, Circuits & Machine Learning

Name of Session Chairman : Dr. D. K. Yadav, Professor, NIT Jamshedpur (JH)				
Name of Session Chair Persons:				
Dr. Shylashree N., Associate Professor RV College of Engineering Bangalore (KA)				
Dr. Vijay Nath, Associate Professor BIT Mesra Ranchi(JH)				
Dr. Senthil Kumar SRM Valliammai Engineering College, Chennai				
Dr. B. Acharya, Assistant Professor, National Institute of Technology, Raipur				
Dr. Ritu Sharma, Associate Professor MNIT Jaipur				
Dr Sujata Sanjay Kotabagi, Professor K L E Technological University, Hubballi				
Dr. Adesh Kumar, Associate Professor UPES University. Dehradun				
Dr. Amrita Rai, Associate Professor, GL Bajaj institute of Technology and Management, Noida				
Group Coordinator/ Moderator: Ms Divya Sharma				
Google meet link : meet.google.com/pcz-fbwi-npm				
S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NMIC22004	Swati Shilaskar	A Realtime Face Mask Detection and Social Distancing Monitoring System	2:00-2:15pm
2.	NMIC22026	Akash R	Machine Learning based Fault Diagnosis in Wind Energy Conversion Systems	2:16-2:30pm



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3.	NMIC22027	Tamaghna Das	Design of Fully Controlled PMSM Drive Using DC-DC Cascaded Boost Converter and Z-Source Inverter	2:31-2:45pm
4.	NMIC22028	Arunkumar P Chavan	A 7.7 GHz, 3.59mW Active Load Inverter Based VCO achieving -152.26dBc/Hz Phase Noise for VCO based Converter	2:46-3:00pm
5.	NMIC22031	Vijay Kumar Verma	An Active Linear Control Driver Circuit using Second Generation Current Conveyor	3:01-3:15pm
6.	NMIC22034	Ayush Verma	Design of health monitoring system using IOT	3:16-3:30pm
7.	NMIC22035	Jayavarshini A	Implementation of Smart Electoral System	3:31-3:45pm
8.	NMIC22036	Gefin Samuel R	Smart Assistive Device for Visually Impaired	3:46-4:00pm
9.	NMIC22041	Bollepalli Spandana	D-Algorithm Implementation for Test Vector Generation	4:01-4:15pm
10.	NMIC22064	Huirem Bharat Meitei	FPGA implementation of coherent sampling TRNG using ADPLL	4:16-4:30pm
11.	NMIC22065	Ragavendra N K	Crop Yield Recommendation in India Using Regression Algorithm	4:31-4:45pm
12.	NMIC22070	Muthu Venkatesh L	Twitter Sentiment Analysis with Machine Learning	4:46-5:00pm

Technical Session 1: Section B :

Signal Processing & Deep Learning

Name of Session Chairman: Prof. J.K. Mandal, Professor Kalyani University Kalyani (WB)

Name of Session Chair Persons:

Dr. Mihir Narayan Mohanty, Shiksha 'O' Anusandhan Deemed to be University, Odissa

Dr Mamatha Girish, Associate Professor NMAM INSTITUTE OF TECHNOLOGY

Dr. Anand Kumar Thakur, Assistant Professor Ranchi University Ranchi(JH)

Dr. Manish Kumar, Professor, Sersha Engineering College Bihar

Dr. Kumar Rajnish, Associate Professor BIT Mesra Ranchi

Dr. Arpan Deyasi, Assistant Professor RCC Institute of Information Technology

Dr. Muthumanickam, Associate Professor, RMK College of Engineering Chennai

Dr. K. Abhimanyu Kumar, Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal,



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Karnataka

Group Coordinator/ Moderator: Dr. Deepak Prasad

Google meet link: meet.google.com/gqz-rgwa-hti

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NMIC22084	Subadharsini S	Melanoma Skin Cancer Detection using CNN	2:00-2:15pm
2.	NMIC22085	Nataraj T	Production Based Crop Yield Prediction Using Regression Techniques	2:16-2:30pm
3.	NMIC22086	Sowmiya R	Prediction Of Pneumonia Using CNN in Deep Learning	2:31-2:45pm
4.	NMIC22089	Mehak Agrawal	Mentor Recommendation System	2:46-3:00pm
5.	NMIC22090	Suparna Maity	A DEQPSO based Social Welfare Maximisation Algorithm for Optimum Utilization of Demand Response in Smart Power Grids Containing Renewable Generation	3:01-3:15pm
6.	NMIC22008	Shri Prakash Dubey	Study of Dielectric Constant and Hysteresis Behavior with Temperature of Cadmium Acetate Dihydrate Sintered with Alundum in Ceramics Engineering and Communication System	3:16-3:30pm
7.	NMIC22010	Shlok Tadiikar	Real-Time Remote IoT based Health Monitoring System	3:31-3:45pm
8.	NMIC22011	Bharat Gunhalkar	Navigation Assistance for the Visually Impaired	3:46-4:00pm
9.	NMIC22012	Jaya Pal	Using Hierarchical Fuzzy Rule Based System to Predict Software Quality	4:01-4:15pm
10.	NMIC22021	Amol P. Bhagat	Blockchain Architectures for Secured Transactions	4:16-4:30pm
11.	NMIC22020	Nitin Chandola	Comparative study of Computerized Detection of Ischemia and Myocardial Infarction with Smartphone based Electrocardiography platforms in an	4:31-4:45pm



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			observational Trials.	
12.	NMIC22022	Amol P. Bhagat	Detection of Plant Leaf Disease using Deep Learning	4:46-500pm

Second Day Activity: 24.04.2022

Technical Session 2: Section A :

Embedded System, Green Energy & Internet of Things

Name of Session Chairman : Dr. T.C. Manjunath, Professor Dayananda College of Engineering Bangaluru

Name of Session Chair Persons:

Dr. Gargi Khanna, Associate Professor, NIT Hamirpur

Dr. Akriti Nigam, Assistant Professor BIT Mesra

Dr. Raj Kumar Singh, Assistant Professor Ranchi University Ranchi (JH)

Dr. Arun Kumar, Associate Professor Ranchi University Ranchi

Dr. Vimal Kumar Singh Yadav, Assistant Professor BIT Mesra Ranchi

Dr. Jitendra Kumar Mishra, Assistant Professor IIIT Ranchi

Dr. Premananda B S, Associate Professor R V College of Engineering Bengaluru

Group Coordinator/ Moderator: Dr. Suraj Kumar Saw

Google meet link: meet.google.com/pcz-fbwi-npm

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NMIC22024	C. Nithya	LSTM based Time Series Forecasting in Real Time Solar PV Generation in Commercial Building	10:00-10:15am
2.	NMIC22025	Rupali Sahu	Classification of healthy and unhealthy Agaricus Mushroom using Ensemble learning Methods	10:16-10:30am
3.	NMIC22029	Puja Gupta	Artificial Intelligence based Deep Architecture for Tuberculosis Detection	10:31-10:45am
4.	NMIC22030	Dipti Sharma	Smart Home Automation for Geriatric using Tactile and Wireless Sensor Networks	10:46-11:00am



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5.	NMIC22032	Sudhir Sharma	The Role of the Internet of Things and Robots in the Retail Sector	11:00-11:15am
6.	NMIC22005	Shripad Bhatlawande	Machine Learning Approach for Classification and Detection of In-Transition Sit-to-Stand and Stand-to-Sit Posture for Elderly People	11:16-11:30am
7.	NMIC22040	Ajit S. Gundale	Characterization of textile weaving loom -a machine learning approach	11:31-11:45am
8.	NMIC22042	Shaik Qadder	Optimized Implementation of Continuous Controller For IoT	11:46am-12:00pm
9.	NMIC22043	Arpan Deyasi	Computing Threshold Voltage Shift in Independent Gate DGMOSFET following Ortiz-Conde Model	12:01-12:15pm
10.	NMIC22044	T.Snehitha Reddy	Design and study of ultra-low power low noise amplifier	12:16-12:30pm
11.	NMIC22046	Harinita	Miniaturization of Ultra-Wide Band 3db Power Divider	12:31-12:45pm
12.	NMIC22050	Uzra Rahman	Multilevel Classification of SQL Injection Attacks and Performance Comparison of Various Classifiers	12:46-01:00pm

Technical Session 2: Section B :

Communication Engineering & Cyber Security

Name of Session Chairman : Dr Nukala Srinivasa Rao, Professor, Matrusri Engg College Hyderabad

Name of Session Chair Persons:

Dr. Umesh Yadav, Professor DDU Gorakhpur University Gorakhpur

Dr. V. Anandi, Associate Professor, MSRIT, Bengaluru

Dr. Jayanthi P N, Assistant Professor, R V College of Engineering Bengaluru

Dr. Amit Prakash, Professor NIT Jamshedpur

Dr. Arumita Biswas, Sub-Divisional Engineer, Bharat Sanchar Nigam Limited, Kolkata

Dr. Tajinder Singh, Assistant Professor, NIT Uttarakhand

Dr. Sanjaya Shankar Tripathy, Assistant Professor, BIT Mesra Ranchi



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Group Coordinator/ Moderator: Dr. Deepak Prasad & Ms. Mili Sarkar

Google meet link: meet.google.com/gqz-rgwa-hti

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NMIC22052	Janani S	Caption Generation for Image using Deep Learning	10:00-10:15am
2.	NMIC22053	Amardeep Kumar	An Approach to Detect DDoS Attacks in Application Layer using Machine Learning	10:16-10:30am
3.	NMIC22056	Maitham Saddeq Jabbar	Analysis and simulation of Single Input Multi Output Buck Converter to Fed Various DC Loads	10:31-10:45am
4.	NMIC22067	Saleem Sanatan Kujur	GPU based Optimization Algorithms governing P System Execution	10:46-11:00am
5.	NMIC22068	Raunak Rathi	UWAKE: An Algorithm for Automatic tag generation for text documents using Word Neighbourhoods	11:00-11:15am
6.	NMIC22069	Gowdham S	Recognizing Handwritten Character using Deep Learning	11:16-11:30am
7.	NMIC22071	Dilip R. Uike	Removing Distrusting Peaks from ECG Signals for proper Analysis	11:31-11:45am
8.	NMIC22076	Jay Prakash Mishra	Implementation of Machine Learning Techniques to Identification of Fake News	11:46am-12:00pm
9.	NMIC22077	Aayush Joshi	Design of MIMO Antenna for Smart Communication Devices	12:01-12:15pm
10.	NMIC22078	Aashu Kumar Singh	Vulnerable Blitz on Security in Nebula Based And Solution	12:16-12:30pm
11.	NMIC22079	Rubesh.A	Miniaturized Rat-Race Coupler for Radio Frequency Application	12:31-12:45pm
12.	NMIC22080	Manish Kumar	Performance Analysis of Machine Learning Algorithms on Predicting the Brain Tumor	12:46-01:00pm



Lunch:- 1:00-2:00pm

Technical Session 2: Section C:

Cyber Physical System & Artificial Intelligence

Name of Session Chairman : Dr. D. Devaraj, Professor, Kalasalingam Academy of Research and Education, Krishnankoil-626126

Name of Session Chair Persons:

Dr. Ram Suchit Yadav, Professor J K Institute of Applied Physics & Technology, University of Allahabad

Dr Shaik Qadeer Professor EED, MJCET Hyderabad

Dr. Vijay Kumar Verma, Scientist, ISRO Bangalore

Dr. Shruti Garg, Assistant Professor BIT Mesra Ranchi

Dr. Abhishek Pandey, Associate Professor UMU Ranchi

Dr. Nutan Latha, Assistant Professor Ranchi University Ranchi

Group Coordinator: Rahul Priyadarshi

Google meet link : meet.google.com/pcz-fbwi-npm

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NMIC22082	Guru Raj M R	Face Recognition of Human Beings Using Hybridized DIP High Speed Computing Programs	2:00-2:15pm
2	NMIC22087	Manikandaraja R	Performance Analysis Of Machine Learning Algorithms To Predict Heart Disease	2:16-2:30pm
3	NMIC22088	Suraj Kumar	Implementation of a 4:1 Multiplexer Using Semiconductor Optical Amplifier Based All-Optical Logic Gates at Higher Data Rates	2:31-2:45pm
4	NMIC22094	M Ankeeta	Small Scale Crater Detection Using Deep Learning	2:46-3:00pm
5	NMIC22002	Shripad Bhatlawande	Video Stabilization Using Moving Averages	3:01-3:15pm
6	NMIC22003	Shripad Bhatlawande	Video Genre Classification Using Deep Learning Network	3:16-3:30pm



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7	NMIC22007	Subhash Kumar Sharma	Bio Sensor and Its application	3:31-3:45pm
8	NMIC22097	Ganga	Integrating Machine Learning with VANET for Enhanced Decision Making: A Review	3:46-4:00pm
9	NMIC22091	Mownika Sekaran	Comparative Analysis of Cardiovascular Disease Prediction With Machine Learning And Deep Learning Algorithms	4:01-4:15pm
10	NMIC22098			4:16-4:30pm
11				4:31-4:45pm
12				4:46-5:00pm

Valedictory Session & Award/Prize Declaration:

Meeting link: meet.google.com/pcz-fbwi-npm

Members on Virtual Dais for Valedictory Session of NMIC-2022	
<ol style="list-style-type: none"> 1. Prof. Gopal Pathak, VC, Sarla Birla University, Ranchi 2. Prof. D. K. Yadav, Professor NIT Jamashedpur & President ISVE Ranchi 3. Dr. Arun Kumar, Director ECOM RU Ranchi & Chairman ISVE Ranchi 4. Dr. Gargi Khanna, Associate Professor, NIT Hamirpur 5. Dr. Vijay Nath (BIT Mesra Ranchi), Executive Member ISVE Ranchi & General Chair of NMIC-2022 6. Dr. Anand Kumar Thakur (RU), Executive Member ISVE Ranchi & Organizing Secretary NMIC-2022 7. Dr. Raj Kumar Singh (RU), Executive Member ISVE Ranchi & Convener NMIC-2022 	
Valedictory Session	
Time	Activity
5:00 pm-5:10pm	Welcome by Dr. Arun Kumar Chairman ISVE Ranchi
5:11 pm-5:20pm	Concluding remarks by Dr. Vijay Nath



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5:21 pm-5:30pm	Program Elaboration by Dr. Raj Kumar Singh
5:31 pm-5:50pm	Short messages by Eminent persons available on virtual dais
5:51 pm-6:10pm	Impact of Conference/ Workshop on Education System by Prof. Gopal Pathak & Declaration of Awards for participants
6:11 pm-6:20pm	Vote of Thanks by Dr. Anand Kumar Thakur
6:21 pm-6:30pm	Virtual High Tea

Important Contact Numbers:

SN	Responsibility	Name	Contact Number
1.	Chairman	Dr. Arun Kumar	
2.	General Chair	Dr. Vijay Nath	9973886214
3.	Organizing Secretary	Dr. Anand Kumar Thakur	9835056547
4.	Convener	Dr. Raj Kumar Singh	9431359955
5.	Group Coordinators Section- A all Session	Dr. Abhishek Pandey	7070364771
6.	Group Coordinators Section- B all Session	Mr. Rahul Priyadarshi Dr. Deepak Prasad	8351968814 9955320916
7.	Group Coordinators Technology Demonstration	Dr. Suraj Kumar Saw Dr. Ashutosh Anand	8416002238 7004775839

Best wishes to all the participants, judges, eminent persons, coordination committee for excellent support.

Thanks & regards

NMIC-2022 Organizing Committee

Virtual Conference

ARTTC BSNL Ranchi-835217 (JH) India