



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

First Day Activity: 25.11.2023

Inaugural Session: MCMI-2023

Meeting link: <https://meet.google.com/fxh-iceq-uyz>

4th International Conference on Microelectronics, Computing Systems, Machine Learning & Internet of Things (MCMI-2023)	
Program Details: First Day: 25-11-2023: MCMI-2023	
Members on Virtual Dais	
<ol style="list-style-type: none">1. Prof. R.P. Yadav, Former Vice-Chancellor Rajasthan Technological University Kota & HAG Professor MNIT Jaipur (Chief Guest & Keynote Speaker1)2. Dr. J.K. Mandal, Vice-Chancellor Raiganj University Raiganj & Professor Kalyani University Kalyani and Co-Editor of MCMI-2022 (Guest of Honor)3. Prof. D. K. Yadav, Professor NIT Jamshedpur & President ISVE Ranchi4. Dr. Arun Kumar, Former Director ECOM RU Ranchi & Chairman ISVE Ranchi5. Dr. Vijay Nath (BIT Mesra Ranchi), Executive Member ISVE Ranchi & General Chair MCMI-20236. Dr. Anand Kumar Thakur (RU), Executive Member ISVE Ranchi & Organizing Secretary, MCMI-20237. Dr. Raj Kumar Singh (RU), Executive Member ISVE Ranchi & Convener MCMI-2023	
Inaugural Session Details	
Time	Activity
10:00am to 10:10am	Welcome by Prof. D. K. Yadav President ISVE Ranchi
10:10 am to 10:20am	Introduction by Dr. Vijay Nath
10:20 am to 10:30am	Program Elaboration by Dr. Raj Kumar Singh
10:30am to 10:50am	Short messages by Eminent persons available on virtual dais
10:50am to 11:20am	Keynote Lecture 1: Prof. R.P. Yadav Former VC RTU Kota
11:20am to 12:20pm	Technical discussion on the theme of Conference by Prof. J.K. Mandal
12:20 pm to 12:50pm	Vote of Thanks by Dr. Anand Kumar Thakur
12:50pm to 1:00pm	Tea Break



Important Notes:

There will be a two-day technical session of MCMI-2023. On 25.11.2023 will be Inaugural session from 10:00am to 1:00pm and Three Parallel Technical Session (1A, 1B, 1C) from 2:00pm to 5:00 pm and on 26.11.2023 will be two parallel technical session (2A, 2B) from 10:00am to 1:00pm and the lecture session/ technologies demonstration from 2:00pm to 4:00pm and Valedictory from 4:00pm to 5:00pm. All are requested to join the session on time.

Technical Session 1: Section A:

Microelectronics & Computing Systems

Name of Session Chairman: Dr. D. K Yadav, Professor National Institute of Technology, Jamshedpur

Name of Session Chairpersons:

Dr. Gargi Khanna, Associate Professor NIT Hamirpur

Dr. Shylashree N., Associate Professor RV College of Engineering Bangalore (KA)

Dr. Vijay Nath, Associate Professor BIT Mesra Ranchi (JH)

Dr. Aruna Kokkula, Assistant Professor Matrusri Engineering College, Saidabad, Hyderabad

Dr Sujata Sanjay Kotabagi, Professor K L E Technological University, Hubballi

Dr Gayathri S, Associate Professor Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, JSS TI Campus, Mysore

Dr. M. Prasad, Associate Professor Shri Vishnu Engineering College for Women (Autonomous), Bhimavaram

Dr. E.B. Priyanka, Assistant Professor, Kongu Engineering College, Perundurai, Erode

Dr. Jagtap Sarika Madhukar, Assistant Professor MVPS'S KBTCOE Nashik Maharashtra

Group Coordinator/ Moderator: Ms Divya Sharma PhD Scholar BIT Mesra Ranchi & Mr. Siddharth Kumar, B.Tech, IIT Kharagpur

Google meet link : <https://meet.google.com/fxh-iceq-uyz>

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
------	----------	-----------------------	-------------	-----------------------



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

1.	MCM123001	Ganesh Kumar	Low Power Digital Circuits Design Using Latch Based Clock-Gating Technique	2:00-2:15pm
2.	MCM123004	Manjunath R	Design and Verification of High-Performance, Scalable Memory Controller for Server SOC	2:16-2:30pm
3.	MCM123005	Manjunath R	A Review of High-Performance Memory Controller Designs in Solid State Drives	2:31-2:45pm
4.	MCM123006	Darshan Hegde	Microarchitecture Data Mining Debugs of CPU Core Simulation Challenges	2:46-3:00pm
5.	MCM123007	Sagar D	Synthesis and Timings Analysis of SoC Module	3:01-3:15pm
6.	MCM123008	Prem Nath Suman	A Compact Multiport Sensing and Communicating Antenna System for Cognitive Radio Applications	3:16-3:30pm
7.	MCM123009	E M Savi Teja	Perform push and Area optimization of SoC Design	3:31-3:45pm
8.	MCM123010	Mrs. Shubha Vibhu Malige	Music Recommender System	3:46-4:00pm
9.	MCM123012	Ayesha Banu	Open Verification Library Assertion based SoC Design and Verification	4:01-4:15pm
10.	MCM123014	Pratik B Desai	Design And Implementation of One-Way Varactor Cell Based Cyclic Time to Digital Converter	4:16-4:30pm
11.	MCM123018	Snehal Sanjay Kale	" Survey Paper on Alzheimer's Disease Detection Using Deep Learning Algorithm "	4:31-4:45pm
12.	MCM123020	Salik Ram Dewangan	An Approximation of Higher-Order Interconnected Power System Model Using Direct Truncation Approach	4:46-5:00pm

Technical Session 1: Section B :

Signal Processing & Machine Learning



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

Name of Session Chairman: Dr. Anamika Yadav, Associate Professor National Institute of Technology Raipur

Name of Session Chair Persons:

Dr. Smita Desai, Assistant Professor Dr.D.Y.Patil Institute of Technology Pimpri Pune 18
Dr Siddharth Singh, Assistant Professor Faculty of Engineering and Technology, University of Lucknow
Dr.Trupa Sarkar, Assistant Professor, Tripura Institute of Technology, Tripura
Dr. Anand Kumar Thakur, Assistant Professor Ranchi University Ranchi(JH)
Dr.Rajesh K S, Professor Saintgits College of Engineering (autonomous), Kottayam, Kerala
Dr. Ajay Roy, Professor Lovely Professional University Jalandhar
Dr. Mahesh Angira, Assistant Professor NIT Hamirpur
Dr. Mangal Patil, Associate Professor Bharati Vidyapeeth deemed to be University College of Engineering Pune Maharashtra

Group Coordinator/ Moderator: Dr. Sudhir Kumar Sharma, Assistant Professor, Manipal University Jaipur & Akoramurthy. B, National Institute of Technology Puducherry

Google meet link: <https://meet.google.com/hub-pbyc-xoz>

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	MCM123021	Hera Shaheen	Skin cancer classification using YOLO-NAS based convolutional network with modified focal loss	2:00-2:15pm
2.	MCM123029	Mohammed Zeeshan A	UPF Schematic Generation of Low Level Cache Controller Using Python	2:16-2:30pm
3.	MCM123030	Apoorva Subash	Power Aware Logic Equivalence Check between Two Designs	2:31-2:45pm
4.	MCM123031	Nagendra Prasad N	Routing of Core with Performance and Power Enhancement	2:46-3:00pm
5.	MCM123033	Christina T J	Performance Analysis of Processors as an Effect of Cache Reservation using Preloading	3:01-3:15pm
6.	MCM123034	Rajeshkumar Jadhav	Design and Timing Analysis of Phase Locked Loop	3:16-3:30pm



7.	MCM123035	Rashmi Kumari	A comprehensive approach to mental health support be-well's fusion-based application with LSTM model and VADER sentiment analysis	3:31-3:45pm
8.	MCM123037	Sandeep S	Sequential Equivalence Check for Memory Management Unit IP Module using Clock Gating Verification	3:46-4:00pm
9.	MCM123038	Abhishek R S	Physical Design Verification of DSP Core Internal Memory for Signoff.	4:01-4:15pm
10.	MCM123047	Ankitha C S	Design of Efficient Comparator for eFuse application	4:16-4:30pm
11.	MCM123049	D. Nagajyothi	Secure Image Steganography using LSB and Reversible Color Transformation	4:31-4:45pm
12.	MCM123050	Tanupriya A G	Low Power Circuit Design with Timing Error Resilience	4:46-5:00pm

Technical Session 1: Section C :

Artificial Intelligence & Deep Learning

Name of Session Chairman: Dr. J.K. Mandal, Professor Kalyani University Kalyani & Vice-Chancellor Raiganj University Raiganj

Name of Session Chair Persons:

Dr. Chandra Shekhar Azad, Assistant Professor NIT Jamshedpur

Dr Jayanthi PN, Assistant Professor RV College of Engineering, Bangalore

Dr. Subhash Chander, Scientist F Solid State Physics Laboratory DRDO Ministry of Defence Lucknow Road Timarpur Delhi 110054

Dr. Anil Shukla, Assistant Professor Amity University, Uttar Pradesh

Dr S Amutha, Assistant Professor VIT University, Chennai, India

Dr. B. Amutha, Professor SRM Institute of Science and Technology, Chennai

Dr. Ashok Kumar K, Associate Professor, Matrusri Engineering College, Hyderabad

Dr. Soma Chatterjee Ghosh, Assistant Professor MAKAUT Kolkata

Dr B khaleelu Rehman, Associate Professor Chaitanya Bharathi Institute of Technology (CBIT), Gandipet, Hyderabad



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

Group Coordinator/ Moderator: Dr. Deepak Prasad, Assistant Professor SBU Ranchi & Dr. Gaurav Yadav, Assistant Professor SoA University Bhubaneshwar

Google meet link: <https://meet.google.com/swa-xcda-amg>

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	MCFI23052	Mohammad Waqar Bhat	Pre-build Methodology to Completely Remove IP Unification Efforts in Multi Die Chip lets	2:00-2:15pm
2.	MCFI23055	Anisha Kiran	Design and Development of Metamaterial Absorber for IoT Applications	2:16-2:30pm
3.	MCFI23056	Tanupriya A G	Customized Machine Learning Model for Obstacle Detection and distance estimation based on YOLOv5 Algorithm	2:31-2:45pm
4.	MCFI23057	Banashankari Bijjal	RTL Design and UVM Based Verification For 1x3 Router	2:46-3:00pm
5.	MCFI23058	G.Sreelakshmi	Idea o Design & Implementation of VDTA based Universal Filter for Frequency Modulation Application	3:01-3:15pm
6.	MCFI23059	Vansh Sharma	Design And Development of a sensor For Measuring Fat Contents in Milk using ultrasonic technology	3:16-3:30pm
7.	MCFI23060	Probir Mondal	Visualizing Genetic Patterns: A Comparative Analysis of DNA Sequences Through Image Processing	3:31-3:45pm
8.	MCFI23061	Divya K	EIGRP-Based Hybrid Routing Approach for MANETs	3:46-4:00pm
9.	MCFI23065	Greeshma N	Design and Analysis of Radiation Hardened by Design Non-Volatile RAM for Space Application	4:01-4:15pm
10.	MCFI23069	Harshita Kaur Saluja	Error-Resilient Segmented Floating-Point Approximate Multiplier	4:16-4:30pm
11.	MCFI23067	Sai Sagar T R	Design of Fast Mapping and Updating of CAM	4:31-4:45pm
12.	MCFI23095	Neeti Singh	Performance evaluation of an automated	4:46-5:00pm



			Terminal Aerodrome Forecast verification tool over Indian Meteorological Watch Offices	
--	--	--	--	--

Second Day Activity: 26.11.2023

Technical Session 2: Section A :

Embedded System, Green Energy & Internet of Things

Name of Session Chairman: Dr. Adesh Kumar, Associate Professor UPES University Dehradun

Name of Session Chair Persons:

Dr. Sukhi Y, Professor R.M.K. Engineering College, Chennai

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

Dr. Pooja Jha, Associate Professor Amity University Jharkhand

Dr Prashant B Patel, Associate Professor DIT, Pune University Pune

Dr. Yagnik Rathod, Assistant Professor, Government Engineering College, Dahod. Gujarat Technological University, Ahmedabad

Dr N Satyanarayana Murthy, Associate Professor, V R Siddhartha Engg College, Kanuru, Vijayawada 520007

Dr S Sabarinathan, Associate Professor, R P Sarathy Institute of Technology Salem

Dr. Parthasarathi De, Associate Professor Narula Institute of Technology Kolkata

Group Coordinator/ Moderator: Mrs T Snehitha Reddy, Research Scholar BIT Mesra

Google meet link: <https://meet.google.com/fxh-iceq-uyz>

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	MCFI23066	Dr. Seema H. Rajput	Comparative analysis of efficient implementation of CNN on CPU and GPU for image processing and implementation of basic CNN operations in Verilog	10:00-10:15am
2.	MCFI23071	Padmaja M Deshpande	Spread Identity to Achieve Location Privacy in Query Search	10:16-10:30am
3.	MCFI23074	Nagaveni G	Front-End Design of PLL using 45nm Technology for Low Power Application	10:31-10:45am



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

4.	MCM123077	Aparna Joshi	Image Fusion of Multi-temporal Images of Eyes Feature for Semantic Gap Reduction using PCA, DWT and SWT Algorithm	10:46-11:00am
5.	MCM123079	Ajaykumar Dharmireddy	Design and Implementation of Multiplier Accumulator Unit Using Rounding Based Approximation	11:00-11:15am
6.	MCM123083	Jayasanthi Ranjith	Double MAC approach for boosting the Performance of Convolutional Neural Networks on FPGAs	11:16-11:30am
7.	MCM123084	Simanta Hazra	Potato Leaf Disease Detection using YOLOv8n aimed towards detection with a handheld device	11:31-11:45am
8.	MCM123085	Saloni Dwivedi	Performance Comparison Among different Wiener Filter algorithms for Speech Enhancement	11:46am-12:00pm
9.	MCM123087	Ajaykumar Dharmireddy	Low Kickback Noise and High Speed Multistage Comparator for High Speed SAR ADC's	12:01-12:15pm
10.	MCM123088	Barnali Brahma	A review on research progress in water sound applications	12:16-12:30pm
11.	MCM123091	Komal Pardeshi	A systematic review of Blockchain in Supply chain Management	12:31-12:45pm
12.	MCM123094	Vishaanth R P	Smart railway platform with train arrival detection	12:46-01:00pm

Technical Session 2: Section B:

VLSI Design & Embedded Systems

Name of Session Chairman : Dr. J.B. Sharma, Associate Professor Rajasthan Technological University Kota

Name of Session Chair Persons:

Dr. Arpan Deyasi, Associate Professor RCC Institute of Technology, Kolkata

Dr. Anil Kumar Verma, Assistant Professor, The ICFAI University Raipur, Kumhari District Durg 490042 Chhattisgarh

Dr. V. Anandi, Associate Professor Ramaiah Institute of Technology, Bengaluru



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

Dr. Aruna J Chamatkar, Associate Professor Kamla Nehru Mahavidyalaya Sakkardara Square Nagpur
 Dr. Abhishek Pandey, Associate Professor UMM Ranchi
 Dr. Rakhi Mutha, Associate Professor Amity University Rajasthan
 Dr. Nutan Latha, Assistant Professor Ranchi University Ranchi
 Dr. Soumik Podder, Assistant Professor Guru Nanak Institute of Technology, Kolkata
 Dr. Vikash Yadav, Lecturer Government Polytechnic Bighapur Unnao, Department of Technical Education
 Uttar Pradesh

Group Coordinator: Dr. Rahul Priyadarshi, Assistant Professor SoA University Bhubaneswar

Google meet link : <https://meet.google.com/hub-pbyc-xoz>

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	MCM123096	Vaishnavee Vijay Rathod	Vehicle Detection Using Computer Vision Technique for Indian Traffic Conditions	10:00-10:15am
2	MCM123097	Mukesh Kishore Sahay	Implementation and Simulation of CMOS Two-Stage Operational Amplifier	10:16-10:30am
3	MCM123098	Jyoti Singh	Design and analysis of low noise amplifiers at 5GHz and used in IoT applications	10:31-10:45am
4	MCM123099	Ansh Raj Anand	Review paper on IoT-based protection scheme in a gas insulated transmission line	10:46-11:00am
5	MCM123100	Sasipriya P	Device Sizing for Optimal Subthreshold Circuit Design	11:00-11:15am
6	MCM123101	Brajesh Pandey	Enhancing Image Segmentation with Optimized Winograd Algorithm for Convolution Neural Network	11:16-11:30am
7	MCM123105	Barnali Brahma	Critical Review of Different Types of Cepstral Features and Applications	11:31-11:45am
8	MCM123110	Gaurav Kumar	Determination of Water Quality with the help of physicochemical parameters for Kiul River, Lakhisarai stretch, Bihar, India	11:46am-12:00pm
9	MCM123068	Govind U	Verilog based router with biometric authentication using machine learning.	12:01-12:15pm
10	MCM123106	Ashis Pradhan	An effort towards Localization and Recognition of Elevation Values in a	12:16-12:30pm



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

			Topographic Sheet	
11				12:31-12:45pm
12				12:46-01:00pm

Technical Lecture: 2:00pm to 4:00pm

Meeting link: <https://meet.google.com/fxh-iceq-uyz>

Valedictory Session & Award/Prize Declaration:

Meeting link: <https://meet.google.com/fxh-iceq-uyz>

Members on Virtual Dais for Valedictory Session of MCMI-2023	
<ol style="list-style-type: none">1. Prof. S.N. Shukla, Vice-Chancellor, Pt Ravishankar Shukla University Raipur2. Prof. D. K. Yadav, Professor NIT Jamshedpur & President ISVE Ranchi3. Dr. Arun Kumar, Former Director ECOM RU Ranchi & Chairman ISVE Ranchi4. Dr. Gargi Khanna, Associate Professor, NIT Hamirpur5. Dr. Vijay Nath (BIT Mesra Ranchi), Executive Member ISVE Ranchi & General Chair of MCMI-20236. Dr. Anand Kumar Thakur (RU), Executive Member ISVE Ranchi & Organizing Secretary MCMI-20237. Dr. Raj Kumar Singh (RU), Executive Member ISVE Ranchi & Convener MCMI-2023	
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
5:21 pm-5:30pm	Program Elaboration by Dr. Raj Kumar Singh



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

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. S.N. Shukla & 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.

MCMI-2023 Organizing Committee

Virtual / Online Conference

ARTTC BSNL Ranchi-835217 (JH) India