



INDIAN SOCIETY FOR VLSI EDUCATION

RANCHI-835217 (JHARKHAND) INDIA

7th International Conference on Nanoelectronics, Circuits & Communication Systems (NCCS-2021)

Program Details: First Day: 29-01-2022: NCCS-2021

Inaugural Session Meeting link: meet.google.com/bzn-uxmd-opu

Inaugural Session: Members on Virtual Dais NCCS-2021

1. **Dr. R.P. Yadav**, HAG Professor MNIT Jaipur & Former Vice-Chancellor RTU Kota
– **Chief Guest & Keynote Speaker**
2. **Dr. D.K. Yadav**, Professor & Head, National Institute of Technology Jamshedpur- **President ISVE Ranchi**
3. **Dr. L.K. Singh**, Former Professor, Dr. Ram Manohar Lohiya Avadh University Ayodhya – **Guest of Honor**
4. **Dr. Vijay Pandey**, Vice-Chancellor(Acting) Jharkhand University of Technology- **Guest of Honor**
5. **Dr. Avireni Srinivasulu**, Pro-Vice-Chancellor K. R Mangalam University Gurugram, Haryana & ISVE City Coordinator Haryana Chapter - **Guest of Honor**
6. **Dr. Lalan Yadav** Professor & Dean of Science, Deen Dayal Upadhyay University Gorakhpur – **Guest of Honor**
7. **Dr. Celia Shahnaz**, IEEE Fellow, Professor BUET Bangladesh- **Guest of Honor**
8. **Dr. J.K. Mandal**, Professor Kalyani University Kalyani (W.B) & ISVE City Coordinator Kolkata Chapter- **Guest of Honor & Co-Editor of NCCS-2021**
9. **Dr. Arun Kumar** Director ECOM, Ranchi University Ranchi - **Chairman ISVE Ranchi**
10. **Sh. Samuel Harrison**, Design Engineer, ST Microelectronics Singapore- ISVE City Coordinator Singapore Chapter **& Invited Speaker 1**
11. **Mr. Deekshith Krishnegowda** (Staff Engineer) at Marvell Technology Inc. at Santa Clara California & ISVE City Coordinator California Chapter
12. **Dr. Vijay Nath** (BIT Mesra Ranchi), Executive Member IETE & ISVE Ranchi- **General Chair NCCS-2021 & Editor of NCCS-2021**
13. **Dr. Anand Kumar Thakur**(RU), Executive Member ISVE Ranchi - **Organizing Secretary NCCS-2021**
14. **Dr. Raj Kumar Singh (RU)**, Executive Member ISVE Ranchi - **Convener NCCS-2021**

Inaugural Session Details:

Time	Activity
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10:00am to 10:15am	Welcome by Dr. Arun Kumar Chairman ISVE Ranchi
10:15am to 10:30am	Presidential Address by Dr. D.K. Yadav President ISVE Ranchi
10:30 am to 10:50am	Introduction by Dr. Vijay Nath
10:50 am to 11:10am	Technical 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: Dr. R.P. Yadav , HAG Professor MNIT Jaipur & Former Vice-Chancellor, Rajasthan Technical University Kota
12:20pm to 12:50pm	Invited Lecture 2: Sh. Samuel Harrison , Design Engineer, STMicroelectronics, Singapore
12:50pm to 1:00pm	Vote of Thanks by Dr. Anand Kumar Thakur
1:00pm to 2:00pm	LUNCH

Important Notes: There will be two days technical session of NCCS-2021. On 29-01-2021 will be Inaugural session and two technical sessions 1A and on 30.01.2021 will be two technical sessions 2A, 2B and two online Invited Lecture sessions & valedictory sessions. All are requested to join the session on time.

Technical Session 1: Section A:

Signal Processing & Cloud Computing

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

Name of Session Chair Persons:

Dr. Nukala Srinivasa Rao, Matrushi Engineering College, Hyderabad

Dr. Arpan Deyasi, Assistant Professor RCCIT Kolkata

Dr. B. Acharya, Assistant Professor NIT Raipur

Dr. Menka Yadav, Assistant Professor MNIT Jaipur

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

Dr. Adesh Kumar, Associate Professor UPES Univ. Dehradun

Dr. Arumita Biswas, Sub Divisional Engineer, BSNL Kolkata

Dr. Chandrashekhar Azad, Assistant Professor NIT Jamshedpur

Dr. Vimal Kumar Singh Yadav, Assistant Professor BIT Mesra

Dr. Jitendra Kumar Mishra, Assistant Professor IIIT Ranchi

Dr. Jayanthi P N, Assistant Professor RV College of Engineering Bangalore

Group Coordinator/ Moderator: Namrata Saxena & Divya Sharma

Google meet link : meet.google.com/bzn-uxmd-opu



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S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NCCS21004	Juned Pathan	Design and Analysis of a Low Power OP-AMP using 180nm Technology	2:00-2:15pm
2.	NCCS21005	Thaya Madhavi	A Study on the Effect of Covid-19 Pandemic on Tourism in Rajasthan: Perception of Tourists	2:16-2:30pm
3.	NCCS21006	Ms. Vijaya Yaduvanshi	Oral Cancer Detection Using Modified Local Binary Pattern	2:31-2:45pm
4.	NCCS21014	Tejaswini Bhosale	Efficient deep learning based convolution neural network model for tourist destination image classification	2:46-3:00pm
5.	NCCS21015	Smita Desai	plant disease detection and grading using optimized image processing method .	3:01-3:15pm
6.	NCCS21016	Subhash Kumar Sharma	An Important Role and Application of Nanoelectronics in Nanotechnology	3:16-3:30pm
7.	NCCS21022	Sneha	A Symmetric Slotted microstrip patch antenna for NB-IoT technology	3:31-3:45pm
8.	NCCS21029	Biswaranjan Acharya	Improved Salp Swarm Optimization for Multiprocessor Task Scheduling: A Novel Approach	3:46-4:00pm
9.	NCCS21040	Akshar Gandhi	A Low-Voltage, Ultra Low-Power Subthreshold Bandgap Reference Circuit Design using Transistor Stacking	4:01-4:15pm
10.	NCCS21041	Arpan Deyasi	Effect of High-Low Doping Profile on Threshold Voltage Shift of Submicron Double-Gate MOSFET	4:16-4:30pm
11.	NCCS21043	Niraj Thorat	AI Based Healthcare Chatbot	4:31-4:45pm
12.	NCCS21045	Pranjal Pimpale	Real-time College Enquiry Chat-bot Using Neural Networks	4:46-5:00pm

Second Day Activity: 30.01.2022



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Technical Session 2: Section A:

Nanoelectronics, Communication Systems & 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 (KT)

Dr. J.B. Sharma, Associate Professor, Rajasthan Technical University, Kota

Dr. T.C. Manjunath, Dayananda Sagar College of Engg. Bengaluru

Dr. Tajinder Singh Arora, Assistant Professor, NIT Uttarakhand

Dr. Rama S. Komaragiri, Professor Bennett University (UP)

Dr. Akriti Nigam, Assistant Professor BIT Mesra

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

Dr. Shashank Pushkar, Assistant Professor BIT Mesra Ranchi (JH)

Dr. S.S. Tripathy, Assistant Professor, BIT Mesra Ranchi

Dr. Arpan Deyasi, Assistant Professor, RCCIIT, Canal South Road

Group Coordinator/ Moderators : Rahul Priyadarshi & Shekhar Yadav

Google meet link: meet.google.com/bzn-uxmd-opu

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NCCS21007	Ishan Gupta	Friendship and community based routing in delay tolerant network	10:00-10:15am
2.	NCCS21009	Prakhar Yadav	Miniaturization of Microstrip Patch Antenna using material loading: review	10:16-10:30am
3.	NCCS21010	Risheek D S	Fingerprint Authentication System for Secured Voting	10:31-10:45am
4.	NCCS21011	Mahima Chaurasia	Implementation of 4 bit barrel shifter using diode connected DC biased positive feedback adiabatic logic (DCDBPFAL)	10:46-11:00am
5.	NCCS21013	Adrika Dadhich,	Data hiding in spatial domain using firefly algorithm with LSB & RDH	11:00-11:15am
6.	NCCS21018	T C Manjunath	Internet of Things based Smart Water Dispenser Design	11:16-11:30am



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7.	NCCS21020	Shubham Sharma	Hybrid Key-length Architecture of mCrypton for resource constrained Embedded / IoT applications	11:31-11:45am
8.	NCCS21021	Bibhudendra Acharya	Low-area Hardware Architecture of Lilliput Lightweight Block Cipher for IoT Applications	11:46am-12:00pm
9.	NCCS21024	Priya B. Pandharbale	Evaluating Collaborative Filtering Recommendation Algorithms: Issues, Challenges and Improvements	12:01-12:15pm
10.	NCCS21025	Shashwat Jha	Power transmission line through artificial intelligence: application of transfer learning and deep convolutional learning techniques".	12:16-12:30pm
11.	NCCS21026	T. Snehitha Reddy	Design and study of low noise amplifier	12:31-12:45pm
12.	NCCS21027	Amaan Ahmad	Smart System for Monitoring the Toxic Gases in Sewerage System via Wireless Network	12:46-01:00pm
13.	NCCS21028	Yogita Tiwari	Design of 4th order Low Pass Filter through Op-Amp using Nulling-resistor based Compensation	1:01- 1:15pm
14.	NCCS21030	Biswaranjan Acharya	Effective Coarse-Grained Macro Pipelined Scheduling of an Application for Decomposition of Tree	1:16- 1:30pm
15.				1:31-1:45pm

Technical Session 2: Section B :

VLSI Design & Cyber Physical System



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Name of Session Chairman : Dr. D. Devraj, Senior Professor, KLU, Anand Nagar, Krishnankoil-626126

Name of Session Chair Persons:

Dr. Ram Suchit Yadav, Professor, JK Institute of Applied Physics and Technology University of Allahabad

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

Dr. V. Anandi, Ramaiah Institute of Technology, Bangalore

Dr. Premananda B.S. Associate Professor RV College of Engineering Bangalore

Dr. Muthumanickam S, Associate Professor RMK College of Engineering & Technology, Thiruvallur

Dr. Shruti Garg, Assistant Professor, BIT Mesra Ranchi

Dr. Abhishek Pandey, Assistant Professor, UMU Ranchi

Dr. K. Abhimanyu Patro, Manipal Academy of Higher Education, Manipal 576104, Karnataka, India

Dr Mamatha Girish, NMAMIT Nitte Karkala Karnataka

Dr Suraj Kumar Saw, Assistant Professor PSIT Pune (MH)

Group Coordinator/ Moderator: Ashutosh Anand & Dr. Deepak Prasad

Google meet link: meet.google.com/mgk-cbio-oom

S.N.	Paper ID	Corresponding Authors	Paper Title	Presentation Schedule
1.	NCCS21032	Anita kumari	CMOS Instrumentation Amplifier	10:00-10:15am
2.	NCCS21033	Afreen khursheed	Performance investigation of CNT interconnects by applying swarm based buffer insertion technique	10:16-10:30am
3.	NCCS21035	Subhash Kumar Sharma	An Overview on Nanoelectronics Devices	10:31-10:45am
4.	NCCS21036	Shri Prakash Dubey	The study on variation of AC conductivity of compressed pellet of Sylvite with Silver oxide	10:46-11:00am
5.	NCCS21037	Rohini Raj	An Implementation of Neural Network using ZyNet and FPGA	11:00-11:15am
6.	NCCS21038	Priyanka Kumari	Analysis of Image Forgery Detection using CNN	11:16-11:30am
7.	NCCS21039	Arun Katara	Literature Review on Advanced patch antenna for LTE and sub-6GHz 5G applications	11:31-11:45am
8.	NCCS21044	Preeti	Expert System for Brain Disaese Diagnosis using Rotation Invariant	11:46-12:01pm



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		Topannavar	Features and Fuzzy Neural Network	
9.	NCCS21046	Kuldeep Vaishnav	Computational Drug Development using Cheminformatics	12:01-12:15pm
10.	NCCS21047	Chiai AI-Atroshi	Dispersed path selection for communication using multipath jamming detection algorithm in MANET	12:16-12:30pm
11.	NCCS21050	Suparna Maity	Artificial Intelligence Based Demand Response Algorithm for Social Welfare Maximisation in Smart Grids	12:31-12:45pm
12.	NCCS21051	T.C. Manjunath	Recent advances in ant colony optimization strategies for design & development of algorithms for detection of cancerous cells in human beings	12:46-01:00pm
13.	NCCS21052	T.C. Manjunath	Simulation of a nanorobotic prototype for diagnostic applications in the field of bio-medical engineering using AI and MI Concepts	1:01pm- 1:15pm
14.	NCCS21053	Sulekha Saxena	Heart Disease Detection Using Machine learning and by recording ECG signals through ELM-D model	1:16pm- 1:30pm
15.	NCCS21054	Garima Gupta	Semi-blind implementation of watermarking in images using DWT-SVD method	1:31pm-1:45pm

Lunch:- 1:00-2:00pm

Invited Lectures:

Meeting Link meet.google.com/mgk-cbio-oom



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Name of Session Chairman: Dr. Ram Suchit Yadav, Professor, JK Institute of Applied Physics and Technology University of Allahabad

All Members should present: Reviewers, Moderators & Presenters

Group Coordinators/ Moderators: Shovan Nandi & P. Arvind Kumar

SN.	Presenters	Topics	Presentation Schedule
1. Technical Lecture 3	Sh. Samuel Jigme Harrison ST Microelectronics Singapore	Chip Design & Validation	2:00-2:45pm
2. Technical Lecture 4	Mr. Deekshith Krishnegowda Staff Digital IC Design Engineer Marvell Technology Inc. USA	VLSI Design & Testing	2:46:-3:30pm

Valedictory Session & Award/Prize Distribution Ceremony:

(All Members should present: Reviewers, Moderators & Presenters)

Meeting link: meet.google.com/bzn-uxmd-opu

Members on Virtual Dais for Valedictory Session of NCCS-2021

1. **Dr. Gopal Pathak**, VC, SBU – **Chief Guest**
2. **Dr. D.K. Yadav** (President ISVE) Professor, National Institute of Technology Jamshedpur
3. **Sh. N.N. Mishra** (Scientist –E) Technical Director NIC Ranchi
4. **Dr. Arun Kumar** (Chairman ISVE) Director ECOM, Ranchi
5. **Mr. Deekshith Krishnegowda** (Staff Engineer) at Marvell Technology Inc. at Santa Clara California, USA
6. **Sh. Samuel Jigme Harrison**, Design Engineer, ST Microelectronics, Singapore
7. **Dr. Vijay Nath** (BIT Mesra Ranchi), Executive Member IETE & ISVE Ranchi- **General Chair NCCS-2021**
8. **Dr. Anand Kumar Thakur**(RU), Executive Member ISVE Ranchi - **Organizing Secretary NCCS-2021**
9. **Dr. Raj Kumar Singh (RU)**, Executive Member ISVE Ranchi - **Convener NCCS-2021**

Valedictory Session

Time	Activity
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3:30 pm-3:40pm	Welcome by Dr. Arun Kumar Chairman ISVE Ranchi
3:41 pm-3:50pm	Concluding remarks by Dr. Vijay Nath
3:51 pm-4:00pm	Program Elaboration by Dr. Raj Kumar Singh
4:01 pm-4:20pm	Short messages by Eminent persons available on virtual dais
4:21 pm-4:30pm	Impact of Conference/ Workshop on Education System by Prof. Gopal Pathak , VC SBU Ranchi & Declaration of Awards for participants
4:31 pm-4:40pm	Vote of Thanks by Dr. Anand Kumar Thakur
4:41 pm-4:50pm	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 Mr. Ashutosh Anand	8416002238 7004775839

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

Thanks & regards

NCCS-2021 Organizing Committee

Virtual Conference

ARTTC BSNL Ranchi-835217 (JH) India