

5th International Conference on "Devices for Integrated Circuits (DevIC 2023)"

Date: 7th April 2023 (Friday)

9.00 am - 9.45 am	Registration & Breakfast
9.45 am - 10.45 am	Inauguration

Plenary Lecture Talk Session –I

Session Chair:

10.45 am - 11.30 am	Plenary Talk by Prof. Nguyen QuangLiem, Institute of Materials Science (IMS), Vietnam Academy of Science and Technology (VAST), Hanoi, Vietnam
	Title: Fluorescent biosensors based on II-VI quantum dots
11.30 am - 12.15 pm	Plenary Talk by Prof. P. K. Basu, Ex-Professor, Institute of Radio Physics and Electronics, Calcutta University
	Title: Sub-Wavelength Propagation of Surface Plasmons and SPASERS and Their Applications in Future ICs and Systems

Plenary Lecture Talk Session –I I

Session Chair: Dr. Maitreyee Roy Kanjilal, Principal, Narula Institute of Technology, Kolkata

12.15 pm - 1.00 pm	Plenary Talk by Prof. C. K. Sarkar, Distinguished Lecturer (DL) of IEEE EDS, Ex-Professor, Jadavpur University
	Title: Semiconductor Industry Towards Tunnel FET
1.00 pm - 1.40 pm	Keynote Talk by Dr. T. R. Lenka, Associate Professor, ECE, NIT Silchar
	Title: III-Nitride Nanowire LEDs for Enhanced Light Technology

1.40 pm - 2.30 pm	Lunch
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2.30 pm - 3.30 pm	1A: Antenna, Photovoltaic & Photonics based Devices and Devices for High speed communication systems	Session Chair: Dr. Partha Pratim Sarkar (Professor, Kalyani University) and Dr. Moumita Mukherjee (Professor, Adamas University) Session Coordinator: Arighna Basak
	Paper id: 22,32, 78, 107, 130 (Venue: H1)	
	1B: Emerging Devices-I	Session Chairs: Dr. Sunipa Roy (Head, ECE, Guru Nanak Inst of Technology) and Dr. T. R. Lenka (ECE, NIT Silchar) Session Coordinator: Dr. Arpan Deyasi
	Paper id: 12,19, 20, 33, 173 (Venue: H3)	
	1C: Nanostructures & Quantum Devices	Session Chairs: Dr. Saradindu Panda (Principal, Sudhir Chandra sur Institute of Technology) and Dr. Surajit Bari (Associate Professor, Narula Inst. of Technology) Session Coordinator: Dr. Manash Chanda
	Paper id: 81,100,140,502, 505 (Venue: H6)	
	1D: Special Session 1(SS1) on "Emerging Semiconductor devices and their applications"	Session Chairs: Dr Neeraj Gupta (Amity University, Haryana) and Dr. Prashant Kumar (JC Bose University of Science & Technology, Faridabad) Session Coordinator: Mili Sarkar
	Paper id: 7, 29, 31, 54, 56, 61, 65 (Venue: H5)	
1E: Special Session 2(SS2) on "Integrated device and circuit, architecture design for biomedical application"	Session Chairs: Dr. Suman LataTripathi (Professor, EE, Lovely Professional University, Punjab) and Dr. Balwinder Raj (Associate Professor, NIT Jalandhar) Session Coordinator: Tanushree Ganguly	
Paper id: 80, 82, 99, 126, 182 (Venue: H4)		

3.30 pm - 5.00 pm	2A: Nano-electronic Devices, Circuit & Technology-1	Session Chair: Dr. Biswarup Neogi (Professor & Head, ECE, JIS College of Engineering, Kalyani) and Dr. Saheli Sarkhel (Assistant Professor, ECE, Netaji Subhash Engineering College) Session Coordinator: Arighna Basak
	Paper id: 128,138,168, 484(Venue: H1)	
	2B: Device Modeling and Simulations-2	Session Chair: Dr. Soumya Pandit (Institute of Radio Physics and Electronics, Calcutta University) and Dr. Anilesh Dey (Professor & Head, ECE, Narula Inst. of Technology) Session Coordinator: Dr. Arpan Deyasi
	Paper id: 52,58, 67, 105, 112(Venue: H6)	
	2C:Nano-electronic Devices, Circuit & Technology-2	Session Chair: Dr. Navjeet Bagga (Assistant Professor, IIT Bhubaneswar) and Dr. Aniruddha Nag (Secretary, IETE Kolkata Chapter) Session Coordinator: Dr. Manash Chanda
	Paper id: 500, 516, 513, 514(Venue: H3)	
2D: Special Session 2 (SS1) on "Emerging Semiconductor devices and their applications"	Session Chairs: Dr Neeraj Gupta (Amity University, Haryana) and Dr. Prashant Kumar (JC Bose University of Science & Technology, Faridabad) Session Coordinator: Mili Sarkar	
Paper id: 101, 108, 111, 152, 233, 499(Venue: H4)		

Date: 8th April 2023 (Saturday)

Keynote Lecture Talk Session –I

Session Chair: Dr. Swapnadip De, Associate Professor, ECE, MeghnadSaha Institute of Technology

9.45 am - 10.30 am	Plenary Talk by Prof. Eduard Babulak, Mah University, USA (Online)
	Title: Smart Tomorrow driven by Ultra Smart Computing
10.30 am - 11.10 am	

Keynote/ Plenary& Invited Lecture Talk Session –II

Session Chair: Dr. Kisalaya Chakrabarti, Professor, ECE, Haldia Institute of Technology

11.10 pm - 11.50 pm	Keynote Talk by Dr. Koushik Guha, Associate Professor, ECE, NIT Silchar
	Title: MEMS & NEMS Technology: Building a future world with intelligent sensors
11.50 pm - 12.30 pm	Key Note Talk by Dr. Abhishek Das, Associate Professor, CSE, Aliah University, Kolkata
	Title: Transforming Healthcare with the Internet of Medical Things
12.30 pm - 1.00 pm	Invited Talk by Dr. Neeraj Gupta, Assistant Professor, Amity University, Haryana
	Title: Past, Present and Future Prospective of Semiconductor Devices in India
1.00 pm - 2.00 pm	Lunch

2.00 pm - 3.30 pm	3A: MEMS, / Nanostructure based devices/systems & Biosensor	Session Chair: Dr. Koushik Guha (Associate Professor, ECE, NIT Silchar) and Dr. Kalyan Biswas (MCKV Institute of Engineering, Howrah) Session Coordinator: Arighna Basak
	Paper id: 34, 47, 122, 167, 172(Venue: H1)	
	3B: Intelligent wireless Communication System Design	Session Chairs: Dr. Dalia Nandi (IIIT Kalyani) and Dr. Sabyasachi Sen (Professor. Department of Physics. JIS College of Engineering) Session Coordinator: Dr. Arpan Deyasi
	Paper id: 109, 115, 116, 124, 125(Venue: H3)	
	3C: Analog/Digital/ Mixed Mode Circuits and Systems	Session Chair: Dr. Bikash Sharma (Associate Professor, ECE, Sikkim Manipal Institute of Technology)& Dr. Avtar Singh (Adama Science and Technology University,Adama,Ethiopia) Session Coordinator: Dr. Kalyan Biswas
	Paper id: 8, 16, 38, 114, 229(Venue: H4)	
	3D: Circuit & Device Integration	Session Chair: Dr. J K Dass (Associate professor, KIIT University, Odisha) and Dr. R S Dhar (Associate Professor, ECE, NIT Mizoram) Session Coordinator: Dr. Manash Chanda
	Paper id: 501, 504, 510, 512, 517 (Venue: H2)	
3E: Embedded Devices & IOT Based applications	Session Chair: Dr. Koushik Dasgupta (Head, CSE, Kalyani Govt. Engg. College)& Dr. Jadav Ch. Das (MAKAUT, IT Dept., West Bengal) Session Coordinator: Mili Sarkar	
Paper id: 37, 95, 496, 507, 519(Venue: H6)		
1:30 pm- 3:30 pm	3F: Special Session 3 (SS3) on “Emerging Trends in Intelligent Communication and Wireless Technologies”	Session Chairs: Dr. Praveen Malik (Lovely Professional University, Phagwara, Punjab), Dr. Rajesh Singh (Uttaranchal University, Dehradun) and Dr. Anita Gehlot (ttaranchal University, Dehradun) Session Coordinator: Tanushree Ganguly
	Paper id: 55, 70, 83, 86, 87, 88, 89, 90 (Venue: H5)	
3.30 pm - 5.00 pm	4A: Intelligent Electronic device, circuit, and System-1	Session Chair: Dr. Papiya Debnath (Techno International New Town, Kolkata) and Dr. Debararti Dey Roy (B.P. Poddar Institute of Management and Technology, Kolkata) Session Coordinator: Arighna Basak
	Paper id: 102, 113, 145, 158, 179, 495 (Venue: H1)	
	4B: Emerging Device and Circuits-1	Session Chair: Dr. Ratul Baruah (Associate Professor, ECE, Tezpur University) and Dr. Rupam Goswami (Assistant Professor, ECE, Tezpur University) Session Coordinator: Dr. Arpan Deyasi
	Paper id: 13, 17, 40, 42, 43, 506, (Venue: H3)	
	4C: Intelligent Electronic device, circuit, and System-2	Session Chair: Dr. D Nirmal (Professor & Head, ECE, Karunya Institute of Technology and Sciences, Tamil Nadu)& Dr. Aminul Islam (Associate Professor, ECE, BIT Mesra, Ranchi) Session Coordinator: Dr. Kalyan Biswas
	Paper id: 5, 21, 27, 39, 44, 117(Venue: H4)	
	4D: Circuit applications of nano-scale devices	Session Chair: Dr. Biswajit Baral (Silicon Institute of Technology, Odisha) and Dr. Sudhansu M. Biswal (Silicon Institute of Technology, Odisha) Session Coordinator: Dr. Manash Chanda
	Paper id: 71, 77, 120,,164, 498, 511 (Venue: H2)	
	4E: Emerging Device and Circuits-2	Session Chair: Dr. Arindam Biswas (Associate Professor. Department of Mining Engineering, KaziNazrul University Asansol)& Dr. Swarnil Roy(ECE, MeghnadSaha Institute of Technology) Session Coordinator: Mili Sarkar
	Paper id: 23, 308, 503, 515, 518 (Venue: H6)	
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Paper id: 91, 93, 96, 97, 104, 121, 127, 171(Venue: H5)		