

Technical Program Schedule (Physical Mode) of IEEE EDKCON 2024

Date	Time	Hall	Event	Mode
30th November, 2024	8:30AM - 9:30 AM	Monarch	Registration & Welcome Reception	Physical
	9:30 AM-10:30 AM		Inauguration of the IEEE EDKCON 2024 (Chief Guest: Dr. Anindita Ganguly, DTE, Govt. of W.B., Guest of Honor: Dr. Rajnish Sharma, VC, Chitkara University, Himachal Pradesh)	
	10.30M-10.45 AM		Tea Break	
	10.45 AM-11.30 AM		Plenary Talk by Dr. Jacopo Iannacci, Center for Sensors and Devices (SD), Fondazione Bruno Kessler, Italy Title of the talk: A fresh concept of Hardware supporting the transition to 6G and Future Networks – Pivoting on Micro/Nanotechnologies Session Chair: Prof. C. K. Sarkar, Jadavpur University	
	11.30 AM-12.00 PM		Key Note 1 : Dr. Rajnish Sharma, Vice Chancellor, Chitkara University – Himachal Pradesh, India Titke of the Talk: Exploring novel materials using Quantum ATK tool for diverse electronic applications Session Chair: Prof. C. K. Sarkar, Jadavpur University	
	12.00 PM-12.30 PM		Key Note 2: Prof. P. K. Basu, University of Calcutta Title of the talk: Acharya Jagadish Chandra's Light Tunnelling Experiment and Its century-long impact on Electronics, Communication and Physics Session Chair: Dr. Soumya Pandit, University of Calcutta	
	12.30 PM-1.00 PM		Key Note 3: Dr. Sitangshu Bhattacharya, IIT Allahbad Titke of the Talk: Ultrafast electron-hole recombination in two-dimensional transition metal di-chalcogenides Session Chair: Dr. Soumya Pandit, University of Calcutta	
	1.00 PM-2.00 PM		Lunch	
	2.00 PM- 2.30 PM		Key Note 4 : Dr. Shubham Sahay, IIT Kanpur Title of the Talk: Neuromorphic Computing: Quo Vadis? Session Chair: Prof. Debashis De, MAKAUT	
	2.30 PM-4.20 PM		Technical Sessions (Invited Talk + 6 papers)	
	2.30 PM-4.20 PM		Track 1: Device and System Reliability Session Chair: Dr. Nayjeet Bagga, IIT Bhubaneswar (Invited Talk 1) (2.30 PM - 2.50 PM) Session Coordinator: Dr. Papiya Debnath, TINT Paper IDs: 32, 141, 167, 107, 153	
	2.30 PM-4.20 PM		Track 2: Analog, Digital and Mixed Mode Circuits Session Chair: Dr. Soumya Pandit, University of Calcutta (Invited Talk 2) (2.30 PM - 2.50 PM) Session Coordinator: Soma Bhattacharya, KGEC Paper IDs: 138, 174,239,252, 280	
	2.30 PM-4.20 PM		Track 3:Computer Aided Design for VLSI Session Chair: Dr. Saheli Sarkhel, Netaji Subhash Engg. College (Invited Talk 3) (2.30 PM-2.45 PM) and Dr. Sanjit Swain, Silicon Inst. of Technology, Odisha (Invited Talk 4) (2.45 PM-3.00 PM) Session Coordinator: Tanushree Ganguly, MSIT Paper IDs: 79, 120, 302, 161, 216	
	4.20 PM-4.30 PM		Tea Break	
	4.30 PM-6.00 PM		Technical Sessions (Invited Talk+ 4 papers)	
	4.30 PM-6.00 PM		Track 4: Nanoelectronic Devices and Circuits Session Chair: Dr. Bikash Sharma, Sikkim Manipal Inst. of Technology (Invited Talk 5) Session Coordinator: Indranil Banerjee, KGEC Paper IDs: 273, 266, 157, 142	
	4.30 PM-6.00 PM		Track 5: Sensor and MEMS Session Chair: Dr. Sunipa Roy, Guru Nanak Inst. of Technology, Kolkata (Invited Talk 6) Session Coordinator: Dr. Arighna Basak, Brainware University Paper IDs: 132, 140, 259, 243	
	4.30 PM-6.00 PM		Track 6: Device Modelling and Simulations Session Chair: Dr. Biswajit Baral, Silicon Inst. of Technology, Odisha (Invited Talk 7) (4.30 PM-4.45 PM) and Dr. S M Biswal, Silicon Inst. of Technology, Odisha (Invited Talk 8) (4.45 PM-5.00 PM) Session Coordinator: Dr. Subhra Pratim Nath Paper IDs: 172, 253, 281, 286	

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1st December, 2024	8:30AM - 9:30 AM	Monarch	Registration & Welcome Reception	Physical
	9.30 AM-10.00 AM		Key Note 5: Dr. Ratul K. Baruah, Tezpur University Titke of the Talk: Interconnects for Large-Area Flexible Circuits Session Chair: Dr. Debashis De, MAKAUT	
	10.00 AM-10.30 AM		Key Note 6 : Prof. T. R. Lenka, NIT Silchar Title of the talk: III-Nitride/ β -Ga2O3 Nano-HEMT for Emerging Nanoelectronics Applications Session Chair: Dr. Debashis De, MAKAUT	
	10.30 AM-11.00 AM		Key Note 7 : Prof. Koushik Guha, NIT Silchar Title of the talk: Intersection of biology, medicine and engineering: venturing into a new era of research Session Chair: Dr. Soumya Pandit, University of Calcutta	
	11.00 AM-11.30 AM		Key Note 8 : Dr. Rupam Goswami, Tezpur University Title of the talk: Random Telegraph Noise in MOS Transistors Session Chair: Dr. Soumya Pandit, University of Calcutta	
	11.30 AM-12.30 PM		Industry-Academia Meet (Panel Discussion) on "Application of AI/ML Algorithms for sustainable growth of VLSI in India" Resource Persons: Dr. Partha Sarkar, Principal, JISCE, Prof. Debashis De, MAKAUT, Prof. J K Mandal, Kalyani University, Prof. Rakesh Vaid, University of Jammu; Dr. Hena Ray, CDAC-Kolkata; Mr. Arghajit Basu, Juniper Network Chair: Prof. Amlan Chakrabarti, Calcutta University	
	12.30 PM-1.10 PM		Tutorial Session on "SMART FACIAL RECOGNITION SYSTEM DEPLOYMENT USING AMD XILINX PYNQ FPGA BOARD" Chair: Prof. J K Das, KIIT, Bhubaneswar with Mr. Joy Chowdhury, Silicon Inst. of Technology, Bhubaneswar	
	1.10 PM-2.10 PM		Design Contest (Chair: Prof. Chanan K. Sarkar, Jadavpur University) Google Meet Link: https://meet.google.com/ujwn-xqmg-cv/	
	2.10 PM-4.00 PM		WIE Session Speaker : Prof. Chayanika Bose, Jadavpur University Topic: Semiconductor LASER Session Chair: Prof. Sheli Sinha Chaudhuri, Jadavpur University;	
	2.10 PM-4.00 PM		Lunch	
	2.10 PM-4.00 PM		Technical Sessions (Invited Talk+ 6 papers)	
	2.10 PM-4.00 PM		Track 7: Sensor and MEMS Session Chair: Prof. Sayan Chatterjee, Jadavpur University (Invited Talk 9) (2.00 Pm-2.20 PM) Session Coordinator: Indranil Banerjee, KGEC Paper IDs: 227, 170, 171, 224, 225, 242	
	2.10 PM-4.00 PM		Track 8: Optoelectronic Devices and Circuits, Imagers (2.00 Pm-2.20 PM) Session Chair: Prof. Debashis De, MAKAUT (Invited Talk 10) Session Coordinator: Dr. Papiya Debnath, TINT Paper IDs: 152, 217, 262, 263, 264	
	2.10 PM-4.00 PM		Track 9: Intelligent Device, Circuit and System Session Chair: Prof. Kaushik Guha, NIT Silchar (Invited Talk 11) (2.00 Pm-2.20 PM) Session Coordinator: Soma Bhattacharya, KGEC Paper IDs: 129 130, 132, 202, 164, 278	
	2.10 PM-4.00 PM		Track 10: Emerging Device and Technology Session Chair: Dr. Hena Ray, CDAC, Kolkata (Invited Talk 12) (2.00 Pm-2.20 PM) Session Coordinator: Tanushree Ganguly, MSIT Paper IDs: 59, 78,122,190, 213	
	4.00 PM-4.10 PM		Tea Break	
	4.10 PM-5.40 PM		Technical Sessions (Invited Talk+ 4 papers)	
	4.10 PM-5.40 PM		Track 11: Memory Device and Technology Session Chair: Prof. Rakesh Vaid, Jammu University (Invited Talk 13) (4.10 PM-4.30 PM) Session Coordinator: Dr. Subhra Pratim Nath, MSIT Paper IDs: 222, 175, 55	
	4.10 PM-5.40 PM		Track 12: VLSI System Design and Security Session Chair: Dr. Jadav Chandra Das, MAKAUT (Invited Talk 14) (4.10 PM-4.25 PM) and Dr. Tanima Bhowmik, IEM Kolkata (Invited Talk 15)(4:25 PM- 4:40PM) Session Coordinator: Mr. Suman Sarkar, IEM Paper IDs: 158,173, 205, 254	
	4.10 PM-5.40 PM		Track 13: Device Modelling and Simulations Session Chair: Dr. Dipankar Saha, Narula Inst. of Technology (Invited Talk 15)(4.10 PM-4.25 PM) and Dr. J. K. Das, KIIT University, Odisha (Invited Talk 16) (4.25 PM-4.40 PM) Session Coordinator: Dr. Pampa Debnath, RCCIIT Paper IDs: 137, 150, 221, 160	
	4.10 PM-5.40 PM		Track 14: Nanoelectronic Device and Technology Session Chair: Dr. Debajyoti Mishra, Siliguri Inst. of Technology, Siliguri (Invited Talk 17)(4.10 PM-4.30 PM) Session Coordinator: Tanushree Ganguly, MSIT Paper IDs: 60, 114, 115, 220	
	5:40 Pm to 6:00 PM		Monarch Validictory Session	

Technical Program Schedule for Special Sessions and Virtual Mode presentations of IEEE EDKCON 2024

Date	Time			Event	Mode	
30th November, 2024	10.45 AM-1.00 PM	V1	Online + Physical (Opus 1)	Technical Sessions (Invited Talk: 30 min + 12 papers) Track SS1: "Electronic devices and signal processing module for IoT application" Session Chair: Prof. S. L. Tripathy, Lovely Professional University, Punjab (Invited Talk 18) (10.45 AM - 11.00 AM) and Dr. B. Raj, NIT Jalandhar (Invited Talk 19) (11.00 AM - 11.15 AM) Session Coordinator: Dr. Pampa Debnath, RCCIIT and Mrs. Soma Bhattacharya, KGEC Paper IDs: 61, 71, 77, 84 (P), 85(P), 88, 98, 98, 109, 121, 246(P), 265 Google Meet Link: https://meet.google.com/dts-nebo-fwi		
				Track SS2: "Innovations and Challenges in VLSI Circuit and System Design: From Concept to Application" Session Chair-Session Chair: Dr. A. Kumar, Lovely Professional University, Punjab (Invited Talk 20) (10.45 AM - 11.00 AM) and Prof. K. S. Rao, KL University, Andhra Pradesh (Invited Talk 21) (11.00 AM - 11.15 AM) Session Coordinator: Mr. Suman Sarkar, UEM and Dr. Arighna Basak, Brainware University Paper IDs: 75, 87 (P), 89, 96, 97, 197, 230 (P), 294 Google Meet Link: https://meet.google.com/dts-swta-xop	Hybrid	
				Track SS3: "Emerging Integrated Technologies for Electronics Design and Engineering" Session Chair: Dr. Neeraj Gupta, Amity University Haryana (Invited Talk 22) (10.45 AM - 11.00 AM) and Dr. P. Kumar, J.C. Bose University of Science & Technology, YMCA, Haryana (Invited Talk 23) (11.00 AM - 11.15 AM) Session Coordinators: Dr. Mili Sarkar, IEM and Mr. Indranil Banerjee, KGEC Paper IDs: 81, 82 (P), 93, 94, 169 (P), 201 (P), 214, 218, 235, 236, 260 Google Meet Link: https://meet.google.com/oda-fiu-jce		
				Track SS4: "Next-Generation Power Electronics and Systems: Challenges and Opportunities" Session Chair: Prof. Krishan Arora, Lovely Professional University, Punjab (Invited Talk 24) (10.45 AM - 11.00 AM) and Dr. Himanshu Sharma, Lovely Professional University, Punjab (Invited Talk 25) (11.00 AM - 11.15 AM) Session Coordinators: Dr. Swarnil Roy, MSIT and Dr. Tanima Bhownik, IEM Kolkata Paper IDs: 86 (P), 149, 261 (P), 133 (P), 269, 271, 297 Google Meet Link: https://meet.google.com/how-yvqv-swv		
	V2	Online + Physical (Opus 2)				
	V3	Online + Physical (Opus 2)				
	V4	Online + Physical (Opus 1)				

Technical Program Schedule Special Session and Virtual Mode presentation of IEEE EDKCON 2024

Date	Time			Event	Mode
1st December, 2024	9.30 AM-11.30 AM	V1/ Opus 1	Online	Technical Sessions (Invited Talk + 5 papers) Track 15: Sensor and MEMS Session Chair: Dr. Kalyan Biswas, MCKV Institute of Engineering, Howrah (Invited Talk 26) (09.30 AM- 09.45 AM) and Dr. Arighna Basak, Brainware University, Barasat (Invited Talk 27) (09.45 AM- 10.00 AM) Session Coordinator: Mr. Suman Sarkar, UEM Paper IDs: 143, 145, 154, 255, 274 Google Meet Link: https://meet.google.com/apx-kqvs-qge	
				Track 16: Nanoelectronics Devices and Technology Session Chair: Dr. Mili Sarkar, IEM College, Kolkata (Invited Talk 28) (09.30 AM- 09.45 AM) and Dr. Pampa Debnath, RCCIIT Kolkata (Invited Talk 29) (09.45 AM- 10.00 AM) Session Coordinator: Mr. Indranil Banerjee, KGEC Paper IDs: 36, 37, 43, 148, 233, 234 Google Meet Link: https://meet.google.com/osp-vcim-dwj	Hybrid
				Track 17: Computer-aided design for VLSI-I Session Chair: Dr. Subhra Pratim Nath, Meghnad Saha Inst. of Technology, Kolkata (Invited Talk 30) (09.30 AM- 09.45 AM) and Dr. Papiya Debnath, Techno India New Town, Kolkata (Invited Talk 31) (09.45 AM- 10.00 AM) Session Coordinator: Mrs. Soma Bhattacharya, KGEC Paper IDs: 193, 228,247, 282, 226 Google Meet Link: https://meet.google.com/ava-yvci-amj	
				Track 18: Device Modelling and Simulations-I Session Chair: Dr. Rudra Shankar Dhar, NIT Mizoram (Invited Talk 32) (09.30 AM- 09.45 AM) Session Coordinator: Mrs. Tanushree Ganguly, MSIT Paper IDs: 29, 128, 131, 147,184, 256 Google Meet Link: https://meet.google.com/jr-buqt-icj	
				Track 19: Device Modelling and Simulations-II Session Chair: Dr. Shubhankar Majumdar, NIT Meghalaya (Invited Talk 33) (09.45 AM- 10.00 AM) Session Coordinator: Mr. Souvik Dey, TIG Paper IDs: 67, 155,159, 162, 165 Google Meet Link: https://meet.google.com/ydo-sxaw-grj	Online
	11.30 AM-1.00 PM	V6	Online	Technical Sessions (Invited Talk: 20 min + 4 papers) Track 20: Analog, Digital and Mixed mode Circuits Session Chair: Dr. Chandan Pandey, VIT-AP (Invited Talk 34) (11.30 AM- 11.50 AM) Session Coordinator: Mr. Suman Sarkar, UEM Paper IDs: 74, 163, 195, 187 Google Meet Link: https://meet.google.com/apx-kqvs-qge	
				Track 21: Device Modelling and Simulations-II Session Chair: Dr. Swarnil Roy, Meghnad Saha Inst. of Technology, Kolkata (Invited Talk 35) (11.30 AM- 11.45 AM) and Dr. Debarati Dey Roy, B P Poddar Inst. of Mgmt. and Technology (Invited Talk 36) (11.45 AM- 12.00 PM) Session Coordinator: Dr. Pampa Debnath, RCCIIT Paper IDs: 58,119,135,189 Google Meet Link: https://meet.google.com/ava-yvci-amj	Hybrid
				Track 22: Computer-aided design for VLSI-II Session Chair: Prof. Mohan Kumar, Symbiosis Institute of Technology, Nagpur (Invited Talk 37) (11.30 AM- 11.50 AM) Session Coordinator: Mrs. Soma Bhattacharya, KGEC Paper IDs: 185,68, 219, 258 Google Meet Link: https://meet.google.com/osp-vcim-dwj	Online
				Track 23: Optoelectronics Devices, Circuits and Displays Session Chair: Prof. D Nirmal, Karunya University, Kerala (Invited Talk 38) (11.30 AM- 11.50 AM) Session Coordinator: Dr. Arighna Basak, Brainware University Paper IDs: 69,176,215, 113, 166 Google Meet Link: https://meet.google.com/jr-buqt-icj	Online
				Track 24 Intelligent Devices, circuits and systems Session Chair: Dr. Avtar Singh, Adama Science and Technology University, Adama,Ethiopia (Invited Talk 39) (11.30 AM- 11.45 AM) Session Coordinator: Mr. Indranil Banerjee, KGEC Paper IDs: 208, 212 , 104, 186, 268 Google Meet Link: https://meet.google.com/ydo-sxaw-grj	Online