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Program Chairs:
Dr. Prafulla Kumar Panda, CUTM, Odisha
Dr. Debendra Kumar Sahoo, CUTM, Odisha

Convener :
Prof. (Dr.) Ashok Misra, CUTM, Odisha

Co-Convener :
Prof. (Dr.) Sangram Keshari Swain, CUTM, Odisha
Prof. Prabhat Kumar Patnaik, CUTM, Odisha
Prof. Satyanarayan Padhy, CUTM, Odisha

Key Note Speaker

Prof. (Dr.) Naeem Hannoon, University of Teknologi MARA, Shah Alam, Malaysia
Prof. (Dr.) Ganapati Panda, Former Dy. Director, IIT BBS, India
Prof. Purna Mohanty, Co-founder and CEO Marquee Semiconductor and Signature IP Corporation
Prof. Ms Yeranuhi Margaryan, CEO–Instigate Design CJSC, Armenia
Prof. (Dr.) Amit Mishra, Aberystwyth University, Sweden
Dr. Safwan Ghanem, Software Engineer, Barclays, Prague, Czechia,
Prof. (Dr.) Bansidhar Majhi, VC, VSSUT, Burla, India
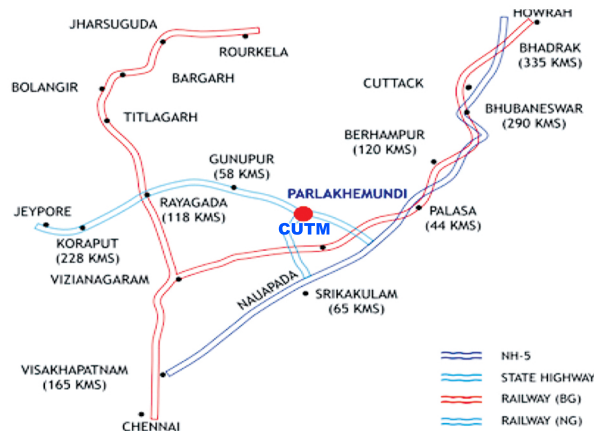Prof. (Dr.) Tapan Gandhi, IIT Delhi, India
Prof. Sunil Sabat, Microsoft leading customer, USA
Mrs. Renuka Shrinivasan, Sales Director for Dassault Systems

Venue

CUTM, At: Village Alluri Nagar, P.O. : R-Sitapur, Via: Uppalada Paralakhemundi,
Dist: Gajapati-761211, Odisha, India
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Approach to Venue

Contact Information

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IEEE
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2nd International Conference on Signal Processing, Communication, Power & Embedded System

(SCOPES-2024)
On Hybrid Mode
19 - 21 December 2024

Centurion UNIVERSITY
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Centurion University of Technology and Management, Odisha
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About the Univeristy

Centurion University of Technology and Management is the first private University in Odisha which was established through the CUTM Act 4 of the Odisha State Legislative Assembly in 2010. In due course, it has got recognition as Grade-A+ University by NAAC and 12 B status by the UGC. Centurion University's School of Vocational Education and Training has been recognized as a Centre of Excellence by the Ministry of Skill Development and Entrepreneurship, Govt. of India.

This University is duly recognized as a pioneer in 'Skill Integrated Higher Education". Its unique model lays specific emphasis on creating sustainable livelihoods on a national scale in challenging geographies through education that results in employability and sparks entrepreneurship.

This model has been recognized by multiple Governments (Central and State), International Organizations such as UNESCO and the World Bank as well as Policy Think-tanks such as the Niti Aayog. It is the only University in India to be recognized as such. Centurion has focused on 'hands-on', 'experience based', 'practice oriented' learning that creates transformative impact through community centric innovation and action research. While promoting Nano, Mini and Micro Enterprises, the University works toward learning experiences that are 'quantifiable', 'sustainable', 'scalable' and 'replicable'.

Centurion University has both built and participated in building eco-systems that include and integrate the community around it's campuses and beyond, industry, entrepreneurs and other education institutions. Its education and training delivery approach is:

• Skill Integrated and Employability Linked Teaching/Learning Process
• Focuses/Leverages Industry and Community Partnerships
• Creates/co-creates Enterprises

About the Department

Department of Electronics and Communication Engineering aims to produce qualified and dynamic engineers in the fast-changing area of Smart Devices, Mobile Emerging Technologies, Automation, Industrial IoT, and VLSI. The Department has sophisticated and modern laboratory equipment and software/tool (HFSS, CADENCE, MATLAB, MULTISIM, KEIL uVision, LABVIEW) for research and development work in the areas of Antenna and Microwave Engineering, Signal Processing and Communication, VLSI and Embedded System. The department undertakes real-time application projects in Smart Irrigation, Industrial IoT, Soil Moisture Prototype Development, Insulin Pump Prototype Development and Chip Design.

About the Conference

SCOPES-2024 is being organized by CUTM with technical co-sponsorship by IEEE Kolkata Section and Bhubaneswar Sub-Section. The aim of this conference is to bring together academicians and industry experts in the fields of Signal Processing, Communication System, Power System and Embedded Systems with its related topics. The conference aims to provide a premier international forum for sharing knowledge and the latest research advancement. Scholars, researchers, industry professionals and students are encouraged to submit original research papers showcasing the latest advancements and innovations in these fields. All submitted papers will be reviewed by experts of corresponding field and the authors of selected papers will be invited to present their work at the conference repeated during 19th -21st December 2024.

Scope of the Conference

Various Tracks of the Conference, but not limited to...

Track 1: Signal Processing
Intelligent Signal Processing, Speech and Audio Signal Processing, Signal Processing for Physically Challenged Person, Statistical Signal Processing, Computer Vision, Image and Signal Processing, Remote Sensing and Its Applications

Track 2: Communication Systems
5G & 6G Wireless Communication, Cognitive Radio, Communication for Physically Challenged Person, Wearable Devices, AI-based Hearing Aids, Advanced Antennas for communication

Track 3: Natural Language Processing
Characters Recognition, NLP in Medical Science, Machine Translation, Text Summarization, Natural Language Generation (NLG), Named Entity Recognition (NER)

Track 4: VLSI and Embedded System
VLSI Design, VLSI Signal Processing, Chip Design, Internet of Things (IoT), Embedded System for Defence, Healthcare & Agriculture, Resource-Constrained Systems, Hardware Software Co-design, Robotics and Autonomous Systems

Track 5: Power Systems
Power System Analysis and Protection, AI and ML Applications in Power Systems, Power System Planning and Operation, Power System Economics and Market Design, High Voltage Engineering, Power System Security, Electric Vehicles, Micro Grid Technologies

Track 6: Power Electronics and Applications
Advanced Power Electronics Converters, AI and ML Applications in Power Electronics, Motion Control and Mechatronics, Electrical Machines Modelling Analysis, Converter-fed Drives, Smart Grid, Renewable Energy Systems, Intelligent Control in Power Electronics and Drives, Power Electronic Converters

Track 7: ML and DL Techniques
ML Techniques and Applications, Deep Learning Techniques and Applications, Soft Computing, Distributed Computing, Cloud Computing, Big Data Analysis, Computational Intelligence, Federated Learning, Explainable AI, AI Applications in Data Science, Generative AI, Edge Computing, Neuromorphic Computing, Fog Computing, Quantum Computing

Track 8: Related Areas-I
Disaster Management and Mitigation AI Applications to Weather, Earthquake, Urban Planning and Smart Cities Application of UAV (Unmanned Aerial Vehicle), Condition Based Maintenance, Micro Machining, New Generation Fuels

Track 9: Related Areas-II
AI Applications to Healthcare, Agriculture, Internet of Things (IoT) in Agriculture, Automation and Robotics in Agriculture, Smart Irrigation Systems, Drones for Crop Monitoring and Spraying, Supply Chain Management in the Dairy Industry, Electrical Safety in Phytochemical Processing, AI Applications to Finance, Marketing, Systems and Manufacturing

Track 10: Related Areas-III
Smart Sensors for Phytochemical Extraction, Robotics and Automation for Extraction Processes, Power Electronics for Sustainable Phytoextraction, Electrical Safety in, Phytochemical Processing, Optimization Models for Phytochemical Extraction, Novel Extraction Techniques for Phytochemicals, Scale-Up of Phytochemical Production Processes, Green Solvents and Recycling in Phytoextraction

For more details about the scope, please visit:
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Registration Fee includes conference Kit, conference Proceeding, Certificate of participation, lunch & snacks.
Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirement.

Important Dates

Events	Dates
Paper Submission Open	July 01, 2024
Last Date for Paper Submission	September 30, 2024
Notification of Acceptance	October 30, 2024
Last Date for Registration and Camera-Ready Paper Submission	November 15, 2024
Conference Dates	December 19 - 21, 2024