

**1<sup>st</sup> International Conference**  
**On**  
**Machine Intelligence and Data Science**  
**(MIDAS-2024)**

**30<sup>th</sup> – 31<sup>st</sup> August, 2024**

**at Paralakhemundi, India**

**(Mode of Conference: Hybrid)**

**Organized by**

**School of Engineering and Technology**

**Centurion University of Technology & Management**  
**Paralakhemundi, Odisha, India**



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**UNIVERSITY**  
*Shaping Lives...  
Empowering Communities...*



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### **About Centurion University of Technology and Management:**

Centurion 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 Ayog. Recently, Centurion University’s School of Vocational Education and Training has been recognized as a Center of Excellence by Ministry of Skill Development and Entrepreneurship, Government of India. It is the only University in India to be recognized as such.

We have continually strived to be a best in class human resource development hub that builds employable, enterprising and society centric youth through industry relevant education, skill development, new ventures, production, and technology development.

The founders, faculty and staff are fully committed to its credo: Shaping Lives. Empowering Communities. This credo is underpinned by a value system of Inclusivity, Integrity, Equity, Respect and Sustainability in everything we do.

Since its inception in 2005 and subsequent establishment as a University in 2010 (vide Odisha Act 4 of 2010), Centurion has created a unique environment that ensures a tailored learning and employability path for youth in some of the poorest and underserved geographies in Odisha and Andhra Pradesh.

Centurion has embraced the Agenda for Sustainable Development and the associated Sustainable Development Goals (SDGs) since being formally announced in 2015. SDGs have been both formally and informally used as a guiding framework and are now firmly embedded in the Centurion DNA. Whilst having an indirect impact and contribution on almost all 17 SDGs, Centurion has specifically focused on 9 SDGs and embedded it in each vertical from its strategy, governance, institutional management and outcomes.

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## Scope of Conference

Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. Researchers will be invited to speak and present the latest developments and technical solutions in the areas of High Performance Computing, Advances in Communication and Networks, Image and Multimedia Processing, Databases, Machine Learning, Deep Learning, Data Science, Cognitive Computing, Artificial Intelligence, Intelligent Systems, Data mining and Data Warehouse, Cloud computing, Big data and Data Analytics, Software engineering, Information and signal theory, Image Processing and Multimedia Systems, Mobile and wireless Communications, Computer and communication networks, Computer aided power system protection, Artificial Intelligence in power systems and Drives, Deregulated smart, micro grids and other related topics on computer science and other engineering disciplines.

**The specific topics of the conference include, but are not limited to:**

<p><b>Track 1: Intelligent Systems</b></p> <ul style="list-style-type: none"><li>• Machine Learning</li><li>• Artificial Intelligence and Intelligent Systems</li><li>• Neural networks</li><li>• Deep Learning</li><li>• Fuzzy logic</li><li>• Multi-Agent Systems</li><li>• Language Processing</li><li>• Cloud Computing</li><li>• Internet of Things</li><li>• Semantic Web and Linked Data</li><li>• Big Data and Business Intelligence</li></ul> <p><b>Track 2: Security, Privacy, and Digital Forensics</b></p> <ul style="list-style-type: none"><li>• Distributed and Pervasive Systems Security</li><li>• Multimedia and Document Security</li><li>• Privacy issues</li></ul>	<p><b>Track 6: Image Processing and Pattern Recognition</b></p> <ul style="list-style-type: none"><li>• Image Acquisition &amp; Medical Image Processing</li><li>• Pattern Recognition and Analysis</li><li>• Visualization</li><li>• Image Coding and Compression</li><li>• Face Recognition &amp; Super-Resolution Imaging</li><li>• Segmentation</li><li>• 3-D and Surface Reconstruction</li><li>• Applications (Biomedical, Bioinformatics, Genomic, Seismic, Radar, Sonar, Remote Sensing, Positioning, etc.)</li><li>• Audio/Speech Processing and Coding</li><li>• Digital &amp; Mobile Signal Processing</li><li>• Statistical &amp; Optical Signal Processing</li><li>• Image and Video Retrieval</li><li>• Image Processing &amp; Understanding</li><li>• Image-Based Modeling</li><li>• Internet Signal Processing</li></ul>
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- Secure Software Development, Architecture and Outsourcing
- Security in Cloud Computing
- Security of Web-based Applications and Services
- VOIP, Wireless and Telecommunications Network Security
- Enterprise Systems Security
- Hardware-Based security
- Operating Systems and Database Security
- SCADA and Embedded systems security
- Security in Social Networks
- Security protocols
- Anti-Forensics and Anti-Anti-Forensics Techniques
- Data leakage, Data protection and Database forensics
- Forensics of Virtual and Cloud Environments
- Malware forensics and Anti-Malware techniques
- Evidentiary Aspects of Digital Forensics
- File System and Memory Analysis Multimedia Forensic
- Information Hiding
- Large-Scale Investigations
- Network Forensics and Traffic Analysis Hardware Vulnerabilities and Device Forensics

### **Track 3: Internet of Things**

- IoT Edge and Cloud Architectures
- AI for IoT
- Web of Things
- IoT Communication Technologies
- Energy Efficiency and Sustainability in IoT
- Sensing, Signal Processing, Actuation and Analytics
- Security and Privacy in IoT
- Human Interaction with IoT
- Self-adaptation for IoT Systems
- Robotic IoT Systems
- Distributed Ledger Technologies for IoT
- Real-world Applications, Deployments, and Testbeds
- Technological Focus for Smart Environments
- Social Implications for IoT Intelligence
- Systems for IoT and Services Computing

### **Track 4: Data Science and Its Applications**

- Business Analytics

- Knowledge Representation and High-Level Vision
- Medical Image Analysis

### **Track 7: Information Systems and Bio-Informatics**

- Information Systems
- Database Systems and Information Security
- Internet Technology
- Big Data, Data Mining and Decision support Systems
- Computer Architecture and Systems
- High Performance Computing
- Signal, Image and Video Processing, Computer vision
- Language Technologies and Information Retrieval
- Bioinformatics and Machine Learning
- Formal Verification of Biological Systems
- Computational Neuroscience
- Biostatistics and Stochastic Models
- Pharmaceutical Applications
- Systems Biology
- Algorithms and Software Tools
- Web Services in Bioinformatics
- Computational Molecular Systems
- Structural Bioinformatics

### **Track 8: Communication Systems and Signal Processing**

- Communication Theory & Systems
- Information Theory & Coding
- Wireless, Mobile & Vehicular Communication
- Satellite Communication
- Cognitive Radio
- Optical Communications & Networks
- Telecom Networks
- VLSI for Communications
- Telecommunication Networks
- Emerging areas in Communication
- Signal Processing for Communication
- Image & Video Signal Processing
- Medical Imaging
- Image Forensic
- Pattern Analysis & Classification
- Statistical Signal Processing

- Data Science
- Data Management and Quality
- Big Data
- Database Security
- Computational Theories for Big Data Analysis
- Computational Intelligence for Pattern Recognition and Medical Imaging
- Intelligent Information Retrieval
- Data Mining
- Data Acquisition, Integration, Cleaning
- Data Visualizations
- Semantic Based Data Mining
- Data warehousing
- Optimization for Data Analytics
- Computer Architecture for Data Analytics
- Computer Graphics for Data Analytics
- Computer Application for Data Analytics

#### **Track 5: Networking and Mobile Computing**

- Communication Network Architectures and Design
- Emerging Technologies for Next Generation Network
- Future Internet Architecture, Protocols and Services
- Mobile and Wireless Networks
- Network Applications
- Network Operation and Management
- Network Security and Privacy
- Network Services and Applications
- Ubiquitous Networks and Cloud Computing
- Wireless and Mobile Computing
- Cryptography, Security and Privacy of mobile and Wireless Networks
- Data Management on Mobile and Wireless Computing
- Mobile Ad hoc and Sensor networks
- Recent trends in mobile and Wireless Applications
- Routing, and Communication primitives in Ad hoc and Sensor Networks
- Satellite Communications

- VLSI for Digital Signal Processing
- Speech & Audio Processing
- Biomedical Signal Processing
- Optimization Techniques
- Inference over Distributed Networks

#### **Track 9: Computer Forensics**

- Disaster Recovery
- Digital Forensics
- Multimedia Forensics
- Cyber Crime Investigations
- E-Discovery
- Forensics Lab Management
- Chip-off Forensics
- Mobile & Network Forensics
- Linguistic Analysis for Security
- ICS/SCADA Forensics
- Forensic Accounting & Fraud, and Incident Response & Analysis
- Security and Forensics Education

#### **Track 10: Cyber Security**

- Cyber-Physical System and Cryptographic Algorithms
- Trust Management
- Authentication and Key Management
- Blockchain
- Public Key Infrastructure (PKI) and Quantum Cryptography
- Web Security
- Android Security
- Vulnerability Assessment and Cyber Forensic
- Secure Techniques for Big Data
- Honeypot Technologies
- Secure and privacy-preserving V2X

#### **Track 11: Remote Sensing and Applications**

- GIS in agriculture
- Land mapping and monitoring
- Disaster mitigation & management,
- Climate monitoring
- Geo Informatics and Its Applications
- Forest mapping

## Publications

All submitted conference papers will be blind peer reviewed by three competent reviewers. The peer reviewed conference proceedings will be published in the SCOPUS indexed databases.

### Important Dates

<b>Start of Paper Submission (Full Paper)</b>	10 <sup>th</sup> April, 2024
<b>Last date of Paper Submission (Full Paper)</b>	30 <sup>th</sup> June, 2024
<b>Notification of Acceptance</b>	15th July, 2024
<b>Submission of Camera-ready papers &amp; Authors' Registration</b>	30th July, 2024
<b>Conference Dates</b>	30th – 31st August, 2024

### Registration Fees

<b>Categories</b>	<b>Foreigners</b>	<b>Indian</b>	
Industry Delegates	USD 300	INR 8000	
Academician	USD 250	INR 7500	
Scholars (PhD/Post Doc.)	USD 200	INR 7000	
Students (Master's Degree/ B. Tech)	USD 150	INR 6500	
Listeners/Delegates (without paper presentation or publication)	USD 100	INR 2000	



## Venue

**School of Engineering and Technology**  
Centurion University of Technology & Management  
Paralakhemundi, Odisha, India



## Conference Website

[www.midas2024.cutm.ac.in](http://www.midas2024.cutm.ac.in)

## Submission Link

To be updated

## Conference E-mail

[midasconf@gmail.com](mailto:midasconf@gmail.com)