



ComSIA-2024

**International Conference on Computing and Communication
Systems for Industrial Automation & Control**

*Organized by School of Open Learning, University of Delhi & Shaheed Rajguru
College of Applied Sciences for Women, University of Delhi*

10-11th May 2024.

******* CALL FOR PAPERS *******

SPECIAL SESSION ON

Computational Intelligence with Generative AI, Federated AI, Explainable AI, and IoT

SESSION ORGANIZERS:

Dr. Sagar Dhanraj Pande, VIT-AP University, Amaravati, Andhra Pradesh, India,
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Dr. Surendra Reedy Vinta, VIT-AP University, Amaravati, Andhra Pradesh, India,
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EDITORIAL BOARD: (Optional)

Dr. Sagar Dhanraj Pande is an Assistant Professor Senior Grade at VIT-AP University, Amaravati, Andhra Pradesh, India. He received his Ph.D. in Computer Science and Engineering from a Lovely Professional University, Phagwara, Punjab, India in 2021. He received the “**Young Researcher Award**” and “**Best Ph.D. Thesis Award**” in 2022 from Universal Innovators. Also, he received the “**Emerging Scientist Award**” in 2021 from VDGGOOD Professional Association. His research interest is Deep Learning, Machine Learning, Network Attacks, Cyber Security, and the Internet of Medical Things (IoMT). He has published and presented more than **80 papers** in Springer, Elsevier, CRC, Taylor & Francis, and other reputable journals which are Scopus indexed & peer-review journals. Also, he has published more than **35 Patents** on the topics of Data Mining, Network Security, IoT, and its application. He is currently supervising 4 Phd Scholar in the domain

of AIML. He has also supervised several postgraduate students in cybersecurity, computer networks, communication, and IoT. He is responsible for teaching Artificial Intelligence, Deep Learning, Machine Learning, Cyber Crime and Security, and Python Programming courses to undergraduate and postgraduate students. He is also sharing his knowledge through his YouTube channel named **sdpguruji**.

Dr. Surendra Reedy Vinta, an experienced professional with 17+ years in academia, currently serves as an Associate Professor in the School of computer science and Engineering at VIT-AP University, Andhra Pradesh. Holding a Ph.D. in CSE, his expertise lies in Machine Learning, Deep Learning, Image Processing, NLP, Data Analytics, and Data Science. Recognized as a mentor in prestigious research conventions, he has contributed significantly to award-winning projects. He has an extensive publication record in international journals and conferences, including Scopus-indexed and UGC-approved journals. Besides teaching, he actively engages in administrative roles, leading committees and coordinating various events. As an author, he has published multiple books, and his research has earned grants and patents.

SESSION DESCRIPTION:

In this session, we'll explore the vital role of Computational Intelligence with Generative AI, Federated AI, Explainable AI, and IoT, focusing on its impact on care standardization and personalization, covering diagnostics, treatment recommendations, predictive analytics, and the automation of tasks like image analysis and patient risk assessment. Weather prediction, Plant Disease Analysis, Object Detection, transforming agriculture by providing insights for crop optimization and resource management.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- **Artificial Intelligence**
- **Machine Learning**
- **Virtual Reality**
- **Augmented Reality**
- **Industrial IoT**
- **Wearable Technology**

- Internet of Things
- Agriculture
- Military
- Space
- Industrial Automation
- Security

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Computational Intelligence with Generative AI, Federated AI, Explainable AI, and IoT**. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at https://comsia.in/paper_submission.html. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify [**insert special session title**] at the top (above paper title) of the first page of your paper.

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