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

Emerging Trends in Deep Learning Techniques using image processing for automation.

SESSION ORGANIZERS:

Dr.Surendra Reedy Vinta, VIT-AP University, Amaravati, Andra Pradesh, India, vsurendra.cse@gmail.com.

Dr. Sagar Dhanraj Pande, VIT-AP University, Amaravati, Andra Pradesh, India, sagarpande30@gmail.com

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.

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 VDGOOD 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**.

EDITORIAL BOARD: (Optional)

SESSION DESCRIPTION:

In this session, we'll explore the vital role of Deep Learning (DL) with Image Processing , 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:

- **Healthcare**
- **Computer Vision**
- **Robotics**
- **Artificial Intelligence**

- **Machine Learning**

- **Virtual Reality**

- **Augmented Reality**

- **Wearable Technology**

- **Internet of Things**

- **Smart Farming**

- **Military Applications**

- **Smart City**

- **Smart Healthcare System**

- **Deep Learning Applications**

- **Video Surveillance**

- **Image Retrieval and Visual Search**

- **Image and Video Communications**

- **Bio-medical and medical imaging**

- **Human Computer Interaction and Graphics**

- **Remote Sensing**

- **Natural Language Processing**

- **Blockchain Technology**

- **Fuzzy Systems**

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Emerging Trends in Deep Learning Techniques with Image Processing**. 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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