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 ML and IoT for Smart Agriculture, Healthcare, and Automation

SESSION ORGANIZERS:

Dr. Harsh Namdev Bhor, Department of Information Technology, K J Somaiya Institute of Technology, sion, Mumbai.

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Dr. Harsh Namdev Bhor, an experienced professional with 17+ years in academia, currently serves as an Assistant Professor in Information Technology at K J Somaiya Institute of Technology, Sion. Holding a Ph.D. in CSE, his expertise lies in Deep Learning, IoT, Data Analytics, and Data Science. Recognized as a mentor in prestigious research conventions, Dr. Bhor 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.

EDITORIAL BOARD: (Optional)

Dr. Vijaya Pinjarkar, K J Somaiya Institute of Technology, Sion, India.

Dr. Suresh, Veltech Ranka Sanku Arts College, Avadi, Chennai, India.

Prof. Harish Bhabad, LGM Institute of Engineering Education and Research, Nashik, Maharshtra, India.

SESSION DESCRIPTION:

In this session, we'll explore the vital role of Machine Learning (ML) in healthcare, 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. We'll also discuss how ML tailors personalized treatment plans based on patient data. Shifting to the Internet of Things (IoT) in healthcare, we'll emphasize its significance in patient monitoring and healthcare delivery, including real-time data tracking and remote patient monitoring through IoT devices. We'll delve into the synergy between IoT and ML in healthcare, especially in data analysis and early health issue detection, and how they optimize hospital operations and resource allocation. Lastly, we'll touch on the role of agriculture in India's GDP and how IoT and ML are 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

- Wearable Technology

- Internet of Things

- **Smart Farming**

- **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 ML and IoT for Smart Agriculture, Healthcare, and Automation**. 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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