ICICC-2024
7th International Conference on Innovative Computing and Communication

ORGANISED BY: SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES, UNIVERSITY OF DELHI, NEW DELHI IN ASSOCIATION WITH NATIONAL INSTITUTE OF TECHNOLOGY, PATNA & UNIVERSITY OF VALLADOLID SPAIN
On
16-17th FEBRUARY 2024.

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

SPECIAL SESSION ON
"Harvesting the Future: Advancements in innovative computing and communication for Agricultural Applications"

SESSION ORGANIZERS:
Stefano Rinaldi, University of Brescia – Department of Information Engineering, Italy, stefano.rinaldi@unibs.it

EDITORIAL BOARD: (Optional)
Stefano Rinaldi, University of Brescia – Department of Information Engineering, Italy, stefano.rinaldi@unibs.it

SESSION DESCRIPTION:
This special issue is dedicated to exploring the transformative potential of innovative computing and communication technologies in the realm of agricultural applications. Agriculture stands at the threshold of a digital revolution, and this issue aims to showcase cutting-edge research and innovations that are driving this transformation. The integration of advanced computing and communication technologies promises to revolutionize various aspects of agriculture, from farm management and decision-making to resource optimization and sustainability.

Key areas of focus for this special issue include:
- **Precision Agriculture:** Contributions in this category will delve into the use of computing technologies such as drones, satellite imaging, and GPS for precision agriculture. Researchers will discuss how these tools can enable farmers to make data-driven decisions, optimize resource use, and enhance crop yields.
- **IoT and Sensor Networks:** Contributions in this area will explore the deployment of Internet of Things (IoT) devices and sensor networks for real-time data collection in agricultural settings. This includes monitoring soil conditions, weather patterns, crop health, and livestock well-being.

- **Machine Learning and AI Applications:** Researchers will present studies on the use of machine learning and artificial intelligence (AI) algorithms for tasks like crop disease detection, yield prediction, and automated farm equipment control.
- **Communication Infrastructure:** Articles will discuss advancements in communication infrastructure that facilitate data exchange in rural and remote agricultural areas. Topics may include 5G/6G networks, low-earth orbit satellite communication, and rural broadband expansion.
- **Blockchain for Traceability:** Contributions will highlight how blockchain technology can be employed to enhance traceability and transparency in the agricultural supply chain, from production to distribution.
- **Farming Automation:** This section will cover innovations in agricultural automation, including autonomous tractors, robotic harvesting systems, and smart irrigation solutions.
- **Data Security and Privacy:** Given the sensitive nature of agricultural data, researchers will explore strategies and technologies to ensure the security and privacy of data collected and transmitted in these systems.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:
- **Precision Agriculture**
- **IoT and Sensor Networks**
- **Machine Learning and AI Applications**
- **Communication Infrastructure**
- **Blockchain for Traceability**
- **Farming Automation**
- **Data Security and Privacy**

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **"Harvesting the Future: Advancements in innovative computing and communication for Agricultural Applications"***on or before* [**30th November 2024**]. 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://icicc-conf.com/paper_submission. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify "Harvesting the Future: Advancements in innovative computing and communication for Agricultural Applications"
at the top (above paper title) of the first page of your paper.

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