

Fifth International Conference

On

Computing, Communications, and Cyber-Security (IC4S'05)

Dates: 29th February 2024 to 1st March, 2024

Venue: Shri Mata Vaishno Devi University (SMVDU), Katra, India



Approved from LNNS, Springer

## SPECIAL SESSION ON Integrating IoT and AI for Sustainable Agriculture (SS\_05\_IIoT/TAISA)

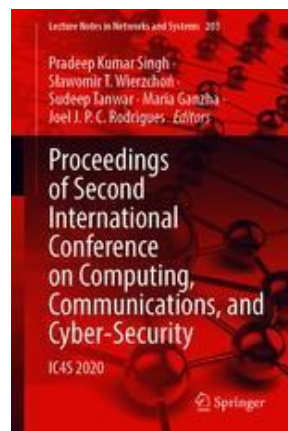
Invitation to Submit Research Papers in Scopus Indexed

5<sup>th</sup> International Conference- IC4S-2024 Scheduled to be held on

29<sup>th</sup> February-01<sup>st</sup> March, 2024 (Venue: SMVDU, Katra, India)

Proceedings of IC4S-2024 will be indexed in DBLP and Scopus indexed Lecture Notes in Networks and Systems (LNNS) of Springer

Proceedings of IC4S-2019, IC4S-2020, IC4S-2021 and IC4S 2022 already published in LNNS Springer Series (SCOPUS Indexed) and available online:



<https://www.springer.com/gp/book/9789811533686>, <https://www.springer.com/gp/book/9789811607325#aboutBook>,  
<https://link.springer.com/book/10.1007/978-981-19-1142-2>, <https://link.springer.com/book/10.1007/978-981-99-1479-1>

### Academic Partners



**Paper Submission Deadline: 29<sup>th</sup> January, 2024**

Paper submission Link: <https://cmt3.research.microsoft.com/IC4S2023>  
(Through CMT Only)

**Conference Website:** <https://www.ic4s.co.in/index.php>

**PUBLICATION: SELECTED PAPERS WILL BE SUBMITTED TO PUBLISHING PARTNER, SPRINGER LNNS SERIES FOR PUBLICATION. SPRINGER LNNS SERIES IS INDEXED WITH SCOPUS AND DBLP.**

### **SESSION CHAIRS**

Dr. Brij Bhushan Sharma, Assistant Professor, Yogananda School of AI Computers and Data Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, HP, India. 173212.

Dr. Gaurav Gupta, Associate Professor, Yogananda School of AI Computers and Data Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, HP, India. 173212.

### **AIMS & SCOPE**

Integrating IoT (Internet of Things) and AI (Artificial Intelligence) into sustainable agriculture signifies a revolutionary method to tackle the changing obstacles in the agricultural industry. The main objective of this conference special session is to investigate and deliberate on the interactions between Internet of Things (IoT) and Artificial Intelligence (AI) innovations, and sustainable food production. The Internet of Things (IoT) facilitates the establishment of an interconnected agricultural ecosystem, where different devices, sensors, and equipment may communicate and exchange real-time data. When subjected to AI algorithms, this data yields useful insights that may be used to make well-informed decisions. The integration of precision agriculture enables farmers to maximize resource utilization, monitor the well-being of crops, and conduct specific interventions.

So main focus of this special session is to address cutting-edge applications, including intelligent irrigation systems, autonomous agricultural machinery, and sensor-based crop monitoring. Artificial intelligence algorithms have the capability to assess a wide range of variables, such as weather patterns, soil conditions, and crop performance. By doing so, they may accurately predict the most suitable times for growing crops and effectively minimize wastage. Moreover, the integration of AI-powered prediction models enables the timely identification of diseases, hence enhancing the overall productivity and quality of crops.

In addition, the workshop will focus on the economic and environmental sustainability elements of this integration. Through the reduction of input wastage and the optimization of resource allocation, farmers can increase output while simultaneously decreasing the environmental effect of agricultural activities. The conversation will also address the impact of IoT and AI in promoting resilience against climate change, guaranteeing the enduring sustainability of agriculture.

Full length original and unpublished research papers based on theoretical or experimental contributions related to the below mentioned tracks are invited for submission in this special session:

#### **Tracks: (Sub-Themes)**

- Convergence of IoT and AI in Agriculture
- IoT Infrastructure in Farming
- IoT's Role in Agricultural Sensing
- Intelligent Data Gathering
- Smart Farming
- AI-Driven Decision Support Systems
- Precision Irrigation
- Water Management with IoT and AI
- Autonomous Farming: Robotics and AI in Agriculture
- Challenges and Opportunities in IoT-AI Integration
- Crop Monitoring and Disease Prediction

#### **PAPER SUBMISSION PROCESS:**

Paper Submission Process:

**Please submit your paper (in word/pdf format) at following emails:**

Email: [brijbhushan@shooliniuniversity.com](mailto:brijbhushan@shooliniuniversity.com), [gaurav@shooliniuniversity.com](mailto:gaurav@shooliniuniversity.com) with Subject Line “**Research Paper for Special Session SS\_05\_IoTAISA- IC4S-2024**” from your email.

You have to also upload the paper through easy chair on the conference website. Details are as follows;

<https://cmt3.research.microsoft.com/IC4S2023>

For any further queries related to this special session, please contact the session chair at:

**Session Chair: Dr. Brij Bhushan Sharma/Dr. Gaurav Gupta**

**Email ID: brijbhushan@shooliniuniversity.com, gaurav@shooliniuniversity.com**

**Mobile No.: 9418550459,7018504271**

### **Important Dates:**

**Submission of Full Papers Deadline**

**29th January, 2024**

**Notification of Acceptance Deadline**

15th February, 2024

**Conference Dates**

29th February 2024 to 1st March, 2024

### **Technical Program Committee (TPC):**

#### **List of Members from India & Abroad (Consented already)**

1. Dr. Varun Jaiswal Gachon University, Republic of Korea
2. Er. Ankit Gupta Interactive Technologies Institute (ITI/LARSyS) and M-ITI, 9020-105 Funchal, Portugal
3. Dr. Manoj Gaur Changigarh University
4. Er. Babita Verma Baddi University, Solan
5. Er. Anu Rayat Bhara University, Solan
6. Er. Preety Baglat University della Svizzera Italiana, Swizerland
7. Er. Raisa Saboori Rana University, Afghanistan
8. Er. Syed Rameem Zahra NIT, Srinagar
9. Dr. Pankaj Jain JJT University, Rajasthan
10. Ms. Sonali Bhasin Nokia Siemens Networks, Bangalore

#### **Publication Policies:**

1. All registered and presented papers/review articles shall be submitted to SPRINGER for their possible publication in a Conference Proceedings format (online). However the right to accept and subsequent publication of each will be with Springer that will be decided on the basis of the quality novelty of work and the originality of the text, the manuscript will represent.
2. In case, any registered paper/article is rejected by the Springer for its publication with their conference proceeding due to any reason (mentioned at point number-01), the sole responsibility shall lies with authors of that article. As we clearly stated on the first and home pages, that Springer will conduct quality checks on the accepted papers and only papers that pass these checks will be published. Therefore authors are expected to avoid to use similarity text (copy and paste from other published works), should adhere to original work maintaining technical and result description qualities. Also authors will not allow to make changes in the choice of publication category (I or II) once registered and pay the fee as per category wise.
3. Paper/article length is limited upto 12 pages only. Extra pages are to be avoided, if necessary, author can place a request in advance with payment of separate fee (page-wise) as mentioned in the registration link.
4. Springer proceedings shall available online only; hard-copy may be requested directly with the SPRINGER on payment as per their rates, once available after online publication.
5. The organizers will have not have any responsibility for any of registered/presented papers, if not accepted/approved by the Springer for publication in their conference proceeding due to any of the reason as specified in point 1 and 2 or because of any specific reason sometimes depends upon manuscript to manuscript too.

### **Silent features of IC4S-2024:**

- **Track-wise “Best Paper Award” along with certificates to all the authors**

- Online presentation based on specific request separately (if pandemic continues then the IC4S 2024 will be organized in hybrid mode)
- Low cost registration amount for the Indian Students (IITs/NITs/Central Universities/Institute of premier repute)

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