



# International Conference on Data-Processing and Networking (ICDPN-2024)

Date: 25th-26th October, 2024

ORGANISED BY : Institute of Technology and Business in České Budějovice,  
Near Prague, Czech Republic, Europe (Venue).

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

## **SPECIAL SESSION ON**

**The AI Edge: Advanced Computing Techniques for Autonomous Innovation**

### **SESSION ORGANIZERS:**

1. **Dr. Sumit Kumar Mishra**, Assistant Professor, Galgotias University, Gr. Noida, India. [Mishrasumit221@gmail.com](mailto:Mishrasumit221@gmail.com)
2. **Dr. Manish Verma**, Associate Professor, Galgotias University, Gr. Noida, India. [mv.nitk.2011@gmail.com](mailto:mv.nitk.2011@gmail.com)
3. **Ms. Divya Saxena**, Graduate Research Assistant, Florida International University Miami, USA. [Divya.it.saxena@gmail.com](mailto:Divya.it.saxena@gmail.com)

### **EDITORIAL BOARD: (Optional)**

1. Dr. Manoj Tyagi, Professor, Galgotias University, Gr. Noida, India, [manojankitsuhani@gmail.com](mailto:manojankitsuhani@gmail.com)
2. Mr. Vinay Kr. Sharma, Assistant Professor, Galgotias University, Gr. Noida, India, [vny\\_sarma@yahoo.co.in](mailto:vny_sarma@yahoo.co.in)
3. Mr. Rahul Anjana, Assistant Professor, Galgotias University, Gr. Noida, India, [rarahulanjana@gmail.com](mailto:rarahulanjana@gmail.com)

### **SESSION DESCRIPTION:**

The aim of this research is to leverage advanced deep learning techniques to enhance the capabilities of Autonomous systems by improving their computing capabilities. The goal is to empower Computer systems with sophisticated computational methods, thereby optimizing their performance, efficiency, and overall functionality. the aim of this research is to push the boundaries of innovation in autonomous systems, enabling them to operate more efficiently, intelligently, and safely in diverse and complex environments through the integration of AI and deep learning advancements.

### **RECOMMENDED TOPICS:**

The scope of the proposed title, **The AI Edge: Advanced Computing Techniques for Autonomous Innovation** implies a broad and interdisciplinary exploration. Here's an elaboration on the potential scope of the associated research or work:

1. **AI in Security**
2. **Deep Learning Integration**

3. Security in IoT
4. IoT Optimization
5. Anomaly Detection in IoT
6. Edge Computing
7. Interdisciplinary Collaboration with IoT
8. Multi agents systems
9. Semantic Web
10. Ethical Considerations in IoT
11. Data Privacy
12. Bandwidth Utilization
13. IoT Applications, Case Studies & Future Trends in IoT
14. AutoML (Automated Machine Learning)
15. AI in Healthcare
16. Natural Language Processing (NLP)
17. Blockchain based innovative model

**SUBMISSION PROCEDURE:**

Researchers and practitioners are invited to submit papers for this special theme session on **The AI Edge: Advanced Computing Techniques for Autonomous Innovation on or before [30th July 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://www.icdpn-conf.com/Downloads>. All submitted papers will be reviewed on a double-blind, peer review basis.

**NOTE:** While submitting paper in this special session, please specify [**Session Name i.e. "The AI Edge: Advanced Computing Techniques for Autonomous Innovation"**] at the top (above paper title) of the first page of your paper.

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